875 West Orange Grove Avenue Project

Community Plan Exemption Checklist Pursuant to CEQA Guidelines Section15183

prepared by

City of Pomona
505 South Garey Avenue
Pomona, California 91769
Contact: Vinny Tam, MURP, AICP, Senior Planner

prepared with the assistance of

Rincon Consultants, Inc.
250 East 1st Street, Suite 1400
Los Angeles, California 90012

January 2021

RINCON CONSULTANTS, INC.
Environmental Scientists | Planners | Engineers
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Introduction

Project Title

875 West Orange Grove Avenue Project (project)

Lead Agency Name and Address

City of Pomona, Planning Division
505 South Garey Avenue
Pomona, California 91769

Contact Person and Phone Number

Vinny Tam, MURP, AICP, Senior Planner
(909) 620-2284, vinny_tam@ci.pomona.ca.us

Project Sponsor's Name and Address

CrestWood Communities
Contact: Patrick Diaz
510 West Citrus Edge Street
Glendora, California 91740

Project Location

The 3.6-acre project site is located along the north side of West Orange Grove Avenue, between Lewis Street and Casa Vista Drive at 875 West Orange Grove Avenue. The eastern loop of Ashport Street borders the central portion of the west project site boundary, and the southern end of Casa Hermosa Drive borders the northeast corner of the project site. The project site is composed of assessor's parcel numbers (APN) 8358-009-006, 8358-009-009, and 8358-009-010. The site can be locally accessed from West Orange Grove Avenue via an existing driveway. Regionally, the site is served by Interstate 10 (I-10) and State Route 71 (SR 71). Three bus stops in the immediate vicinity provide access to Foothill Transit bus route 197. Figure 1 shows the location of the project site in its regional context and Figure 2 shows the site in its neighborhood context.

Project Site General Plan Designation

The City of Pomona General Plan Update (GPU) designates the project site as a "Residential Neighborhood" place type. The southern portion of the project site fronting West Orange Grove Avenue is in the T4-B "Neighborhood Edge" transect zone, which promotes grand scale development that is compatible with medium scale multi-family housing and townhomes with a more residential character; the remainder of the site is within the T3 transect zone, which

promotes a variety of single-family housing types that are designed to be compatible with existing adjacent homes.

Project Site Zoning

The project site is zoned R-1-6,000, which permits detached single-family residences on lot sizes that are a minimum of 6,000 square feet. However, the Small lot Development Standards would apply to the proposed project, pursuant to the provisions of Senate Bill (SB 330) and Government Code Section 65589.5(j)(4); which is further discussed in Section 11, *Land Use and Planning*.

Existing Setting and Surrounding Land Uses

The 3.6-acre site is fully developed with church uses and associated paved parking, recreation courts, and landscaped areas. The project site is relatively flat, ranging between 855 feet to 859 feet above mean sea level with relative low points near the southwest corner of the site.

Surrounding GPU place type designations include other Residential Neighborhood parcels that are developed with mostly single-family residences in the immediate vicinity. Likewise, surrounding zoning designations mainly consist of R-1-6,000.

Existing uses adjacent to the project site include multi- and single-family residences to the north, south, east, and west.

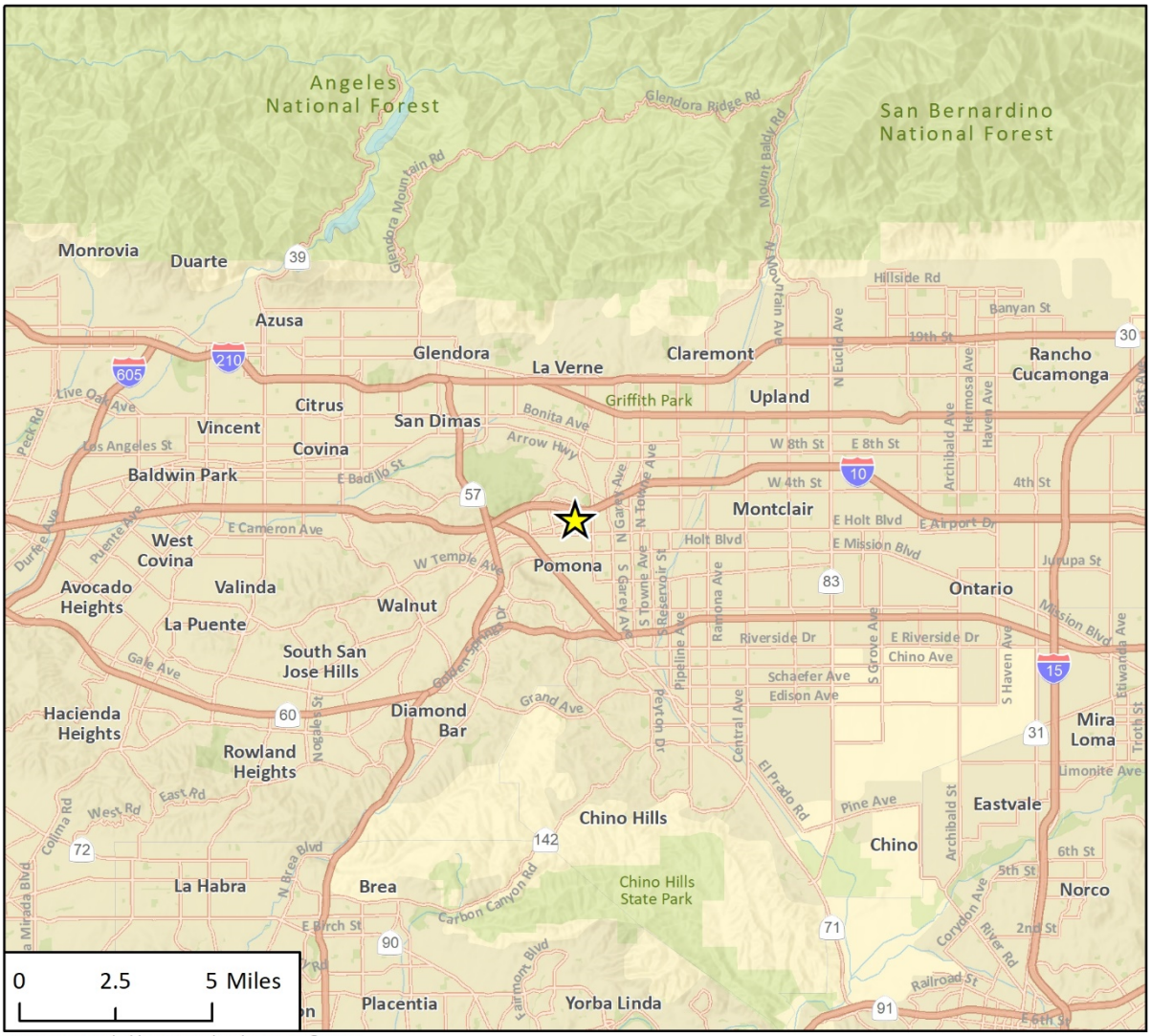
Description of Project

The 875 West Orange Grove Avenue Project (project) proposes the development of 33 detached single-family residences. Table 1 summarizes the project components and Figure 3 shows the project site plan. All proposed project plans, including floor plans and conceptual building elevations are included in Appendix A.

The proposed residences would consist of three- to four-bedroom units, ranging between 1,687 square feet (sf) to 1,955 sf. The 33 residences would be configured in a horseshoe arrangement, with 24 residences along the edge of the project boundaries and nine residences located in the center of the site. The proposed residences would be two stories and vary in maximum height between approximately 25 to 28 feet in height depending on the building plan.

Building materials would include stucco for most of the building façade, accented with fascia, trim, and stone in complementary tones. Proposed roofing materials would consist of clay Spanish tiles and wood shingles to provide a varied but thematically consistent aesthetic within the proposed community.

Figure 1 Regional Location



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Project Location

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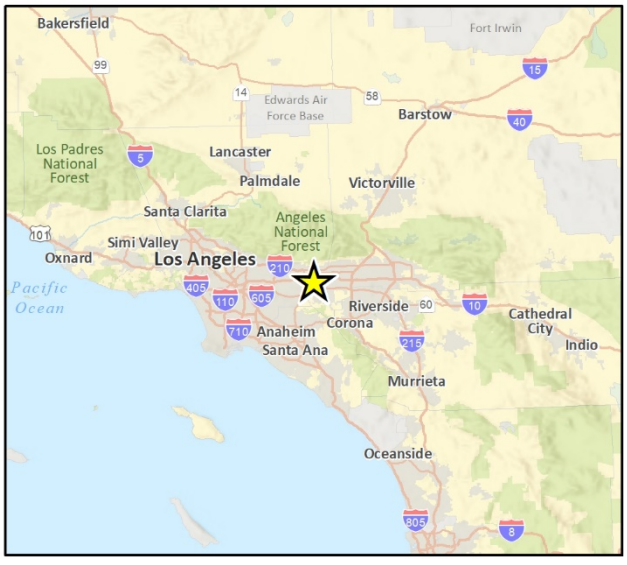

Figure 2 Project Location Map

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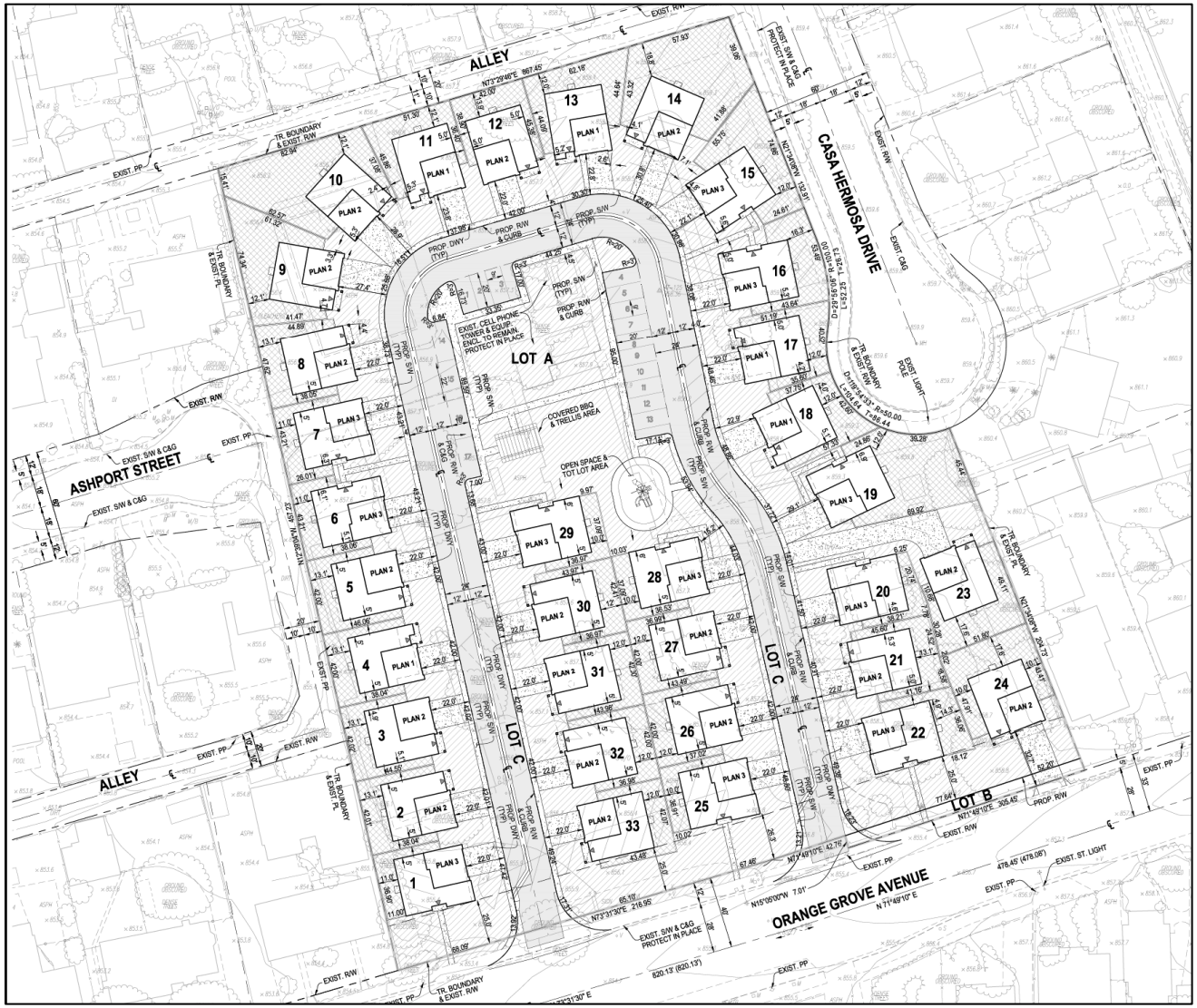
Table 1 Project Components

Project Component	Small Lot Development Standard	Project[1]
Land Use	Single-family Residential	Single-family Residential
Acreage	10 acres (435,600 sf)	3.6 acres (156,875 sf)
Lots		
Width	38’ min	43’ min
Depth	46’ min	55’ min
Lot Size	2,200 sf min, 4,600 sf max	Ranging from 2,883 sf to 5,188 sf
Dwelling Units		
Single-Family	Permitted	33 dwelling units
Density	7 du/acre min, 10 du/acre max	9.2 du/acre
Unit Size (min floor area)	1,900 sf (for 3-bd)	1,687 sf – 1,955 sf
Coverage	70 percent max	< 70 percent per lot
Height	35’ or 3 stories max	28’-2” ft max and 2 stories
Yards		
Front yard	10’ min (5’ min facing public street)	> 18’
Side Yard	No min	> 2.4’ (5’ average)
Rear Yard	5’ min	> 11’
Building Separation	6’ min	10’ min
Parking[2]		
Residential	2 spaces min (in garage) per unit	66 parking spaces
Guest	Accommodated in driveways and designated areas on interior streets	66 parking spaces on driveways 17 parking spaces designated
Total Parking Spaces	**66+ required parking spaces**	**149 parking spaces**
Open Space		
Common Open Space	5% of gross acreage min, and 10’ length or width min	0.32 acres fully landscaped with covered BBQ area and tot lot (approx. 9% of gross acreage)
Private Open Space	100 sf min, and 5’ length or width min	> 100 sf, varies based on lot size

[1] sf = square feet; du/acre = dwelling units per acre; min = minimum; max = maximum

Source: City of Pomona 2018b

Figure 3 Proposed Site Plan



Source: CrestWood Communities 2020

Open Space

The project is not required to provide community open space amenities. However, the project would include development of common open space with a covered BBQ area and trellis, and tot lot located in the middle of the site for residential use.

The project is required to provide front, side, and rear yards for each of the proposed 33 single-family residences. Table 1 includes a summary of proposed yard widths, which would vary based on lot size and proposed building plans. However, each proposed residence would have front, side, and rear yards for private use.

Vehicular Access, Parking, and Pedestrian Circulation

Vehicular access to the project site would be provided via two driveways located on the project site frontage of West Orange Grove Avenue. Proposed residences would be accessed through a private street that provides driveway access to the residential garages, guest parking spaces, and community open space amenities.

As summarized in Table 1, a total of 149 parking spaces would be provided as part of the project. Residential parking spaces would be provided in the form of two-car attached garages for each proposed residence. A total of 17 parking spaces would be available for guest use located in the center of the site by the proposed community open space amenities, and an additional 66 parking spaces would also be available for guest use located on each driveway of the proposed 33 residences.

Pedestrian access to the project site would be via the existing sidewalks along West Orange Grove Avenue. Driveway cutouts and improvements, just outside the project site (on existing sidewalk frontage) would be completed as part of the project. Site plans indicate internal pedestrian walkways.

Landscaping

The preliminary landscape plan indicates landscaping along the frontage of West Orange Grove Avenue, along Casa Hermosa Drive, and in the proposed community open space area (Appendix A). The proposed plant palette includes a variety of trees, shrubs and ground cover that would require low to medium water use. The project would be required to comply with the Water Efficient Landscape Ordinance (Ord. No. 4232) for all proposed landscaping. In addition, some of the community open space area would contain artificial turf to further reduce outdoor water use during project operations.

Requested Entitlements

The project is subject to approval by the City of Pomona's Planning Commission, and would require the following discretionary entitlements from the City of Pomona:

- Tentative Tract Map in order to subdivide the project site for single-family residential lots, common outdoor areas, and private street

Prior Environmental Document(s) Analyzing the CEQA Guidelines Section 15183 Exemption (including State Clearinghouse Number if Assigned)

City of Pomona General Plan Update, Pomona Corridors Specific Plan, Active Transportation Plan and Green Plan Environmental Impact Report, July 2013. State Clearinghouse Number 2012051025

Location of Prior Environmental Document(s) Analyzing the Effects of the Infill Project

City of Pomona Planning Division, 505 South Garey Avenue, Pomona, CA 91766

Other Public Agencies Whose Approval is Required (e.g., Permits, Financing Approval, or Participation Agreement)

Los Angeles County Fire Department approval is required for permitting purposes

Overview of CEQA Guidelines Section 15183

Overview

This Statement of Reasons for Exemption from Additional Environmental Review and Community Plan Exemption Checklist Pursuant to California Environmental Quality Act (CEQA) Guidelines (CEQA Guidelines) Section 15183 ("Statement of Reasons") evaluates whether the environmental impacts of the project are addressed in the City of Pomona General Plan Update, Corridors Specific Plan, Active Transportation Plan, and Green Plan Environmental Impact Report (hereafter collectively referred to as the GPU EIR). California Public Resources Code (PRC) Section 21083.3 and CEQA Guidelines Section 15183(a) provide an exemption from additional environmental review for projects that are "consistent with the development density established by existing zoning, community plan or general plan policies for which an EIR was certified shall not require additional environmental review, except as might be necessary to examine whether there are project-specific significant effects that are peculiar to the project or its site." (PRC Section 21083.3[b], states: Exemption applies to "a development project [that] is consistent with the general plan of a local agency [if] an environmental impact report was certified with respect to that general plan.) CEQA Guidelines Section 15183(c) further states that if an impact is not peculiar to the parcel or to the project, has been addressed as a significant effect in the prior EIR, or can be substantially mitigated by the imposition of uniformly applied development policies or standards, as contemplated by CEQA Guidelines Section 15183(e), then an EIR need not be prepared for the project solely on the basis of that impact.

City of Pomona General Plan Update, Corridors Specific Plan, Active Transportation Plan and Green Plan EIR (GPU EIR)

The GPU EIR, certified in March 2014, establishes the community's vision for the development of the City through the year 2035. The General Plan Update (GPU) provides comprehensive land use, housing, circulation and infrastructure, public service, resource conservation, and public safety policies for the entire City.

A project is consistent with a community plan if the density of the project is the same or less than the standard contemplated for the involved parcel in the community plan or zoning for which an EIR has been certified, and the project complies with the density-related standards contained in that plan, pursuant to CEQA Guidelines Section 15183(i)(2). Density standards are expressed in various ways, including based on the number of dwelling units per acre, the number of people in a given area, floor area ratio (FAR), and other measures of building intensity, building height, and size limitations and use restrictions (State of California Governor's Office of Planning and Research General Plan Guidelines 2003: 50).

The project is consistent with the density standards analyzed in the GPU EIR. The maximum allowable housing density identified for the project site in the GPU EIR is 40 dwelling units per acre (du/ac) for the T4-B "Neighborhood Edge" transect zone, and 20 du/ac for the T3 residential area. The project would have a residential density of 9.2 du/ac. The proposed residential development is consistent with the Small lot Development Standards which apply to the proposed project, pursuant

to the provisions of Senate Bill (SB 330) and Government Code Section 65589.5(j)(4); which is further discussed in Section 11, *Land Use and Planning*.

In addition, based on the City's General Plan Housing Element (2018), the average household size is 3.85 persons (City of Pomona 2018a). Therefore, the conservative estimate is that the project would increase the local population by up to 127 persons. The anticipated population growth associated with the project represents approximately 0.5[1] percent of the potential population forecast for the buildout of the GPU, which is well within the population growth projections of the GPU EIR.

Applicability of CEQA Exemption

Pursuant to CEQA Guidelines Section 15183(d), an exemption applies under the following conditions:

1. The project shall be consistent with:
   A. A community plan adopted as part of a general plan,
   B. A zoning action which zoned or designated the parcel on which the project would be located to accommodate a particular density of development, or
   C. A general plan of a local agency, and
2. An EIR was certified by the lead agency for the zoning action, the community plan, or the general plan.

The exemption applies only to the extent that all feasible mitigation measures for a significant effect specified in the EIR are, or will, be undertaken by the public agency having jurisdiction to implement such mitigation measures, pursuant to CEQA Guidelines Section 15183(e).

As required by CEQA, the City prepared a Final EIR (State Clearinghouse Number: 2012051025), which analyzed the environmental impacts of the GPU. On March 3, 2014, the City Council adopted Resolution No. 2014-26 certifying the GPU EIR as meeting the requirements of CEQA. On March 3, 2014, the City Council also adopted Resolution No. 2014-27, which approved General Plan Amendment (GPA 13-007) to adopt the Pomona General Plan Update and approved the adoption of the Active Transportation Plan and the Green Plan as implementation tools of the General Plan Update.

Accordingly, CEQA Guidelines Section 15183 exemption applies to the project because the project is consistent with the GPU EIR and all feasible mitigation measures identified in the GPU EIR applicable to the project will be implemented, as further discussed in the Exemption Checklist.

Scope of CEQA Exemption

In evaluating whether a project is exempt from further environmental review based on consistency with the GPU EIR, CEQA Guidelines Section 15183(b) specifies that examination of environmental effects shall be limited to those effects that:

1. Are peculiar to the project or the parcel on which the project would be located,

[1] (127 project residents)/(23,498 GPU residents) = 0.5 percent. "Development facilitated in the Focus Areas… by the Corridors Specific Plan and General Plan Update would result in approximately 8,506 residential units and approximately 23,498 residents present in those areas." (City of Pomona 2013)

2. Were not analyzed as significant effects in a prior EIR on the zoning action, general plan, or community plan, with which the project is consistent,
3. Are potentially significant off-site impacts and cumulative impacts which were not discussed in the prior EIR prepared for the general plan, community plan or zoning action, or
4. Are previously identified significant effects that, as a result of substantial new information which was not known at the time the EIR was certified, are determined to have a more severe adverse impact than discussed in the prior EIR.

An additional EIR, or other environmental document, need not be prepared for a project solely on the basis of an impact that is not peculiar to the parcel or to the project, has been addressed as a significant effect in the prior EIR, or can be substantially mitigated by the imposition of uniformly applied development policies or standards, pursuant to CEQA Guidelines Section 15183(c). An impact is not peculiar if uniformly applied development standards or procedures are imposed with a finding that they will substantially mitigate the applicable environmental impact, pursuant to CEQA Guidelines Section 15183(f). Such uniformly adopted policies or procedures do not have to be addressed in the prior EIR nor included in the community plan or the general plan (*id*.) Moreover, the uniformly adopted policies or procedure can be limited to just the community plan area (*id*.)

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CEQA Guidelines Section 15183 Exemption Checklist

This CEQA Guidelines Section 15183 Exemption Checklist provides an analysis of potential environmental impacts resulting from the project. Following the format of CEQA Guidelines Appendix G, environmental effects are evaluated to determine if the project would result in a potentially significant impact triggering additional review under CEQA Guidelines Section 15183.

- Items checked "Peculiar Impact that is not Substantially Mitigated" indicate that the project could result in a peculiar impact, including a physical change that belongs exclusively or especially to the project or that is a distinctive characteristic of the project or the project site and that peculiar impact is not substantially mitigated by the imposition of uniformly applied development policies or standards, pursuant to CEQA Guidelines Section 15183(b)(1).
- Items checked "Impact not Analyzed as Significant Effect in GPU EIR" indicate that the project could result in a significant effect that was not analyzed as significant in the GPU EIR. Such a project impact is not significant if it can be substantially mitigated by the imposition of uniformly applied development policies or standards, pursuant to CEQA Guidelines Sections 15183(b)(2), (c), (f).
- Items checked "Potentially Significant Off-site or Cumulative Impact Not Discussed in GPU EIR" indicate the project could result in a significant off-site or cumulative impact that was not discussed in the GPU EIR. Such an off-site or cumulative project impact is not significant if it can be substantially mitigated by the imposition of uniformly applied development policies or standards, pursuant to CEQA Guidelines Sections 15183(b)(3), (c), (f).
- Items checked "Adverse Impact More Severe Based on Substantial New Information" indicate that there is new information that leads to a determination that a project impact is more severe than discussed the GPU EIR. Such an impact is not more severe if it can be substantially mitigated by the imposition of uniformly applied development policies or standards, pursuant to CEQA Guidelines Sections 15183(b)(4), (c), (f).

A project does not qualify for a CEQA Guidelines Section 15183 exemption if the project is determined to result in one or more of the following: (1) a peculiar impact that was not identified as a significant impact under the GPU EIR, (2) a significant impact that was not analyzed as significant in the GPU EIR, (3) a potentially significant off-site impact or cumulative impact not discussed in the GPU EIR, or (4) a more severe impact due to substantial new information that was not known at the time the GPU EIR was certified. However, if a project having any of the foregoing impacts can be substantially mitigated through the imposition of uniformly applied development policies or standards, further environmental review is not required.

A summary of each potential environmental effect of the project is provided below in the exemption checklist for each subject area. A list of references, significance guidelines, and technical studies used to support the analysis are attached as appendices.

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Environmental Factors Potentially Affected

This project would potentially affect the environmental factors checked below, involving at least one impact that is: (1) a peculiar impact that was not identified as a significant impact under the GPU EIR, (2) a significant impact that was not analyzed as significant in the GPU EIR, (3) a potentially significant off-site impact or cumulative impact not discussed in the GPU EIR, or (4) a more severe impact due to substantial new information that was not known at the time the GPU EIR was certified, as indicated below and described in the checklist on the following pages.

□ Aesthetics	□ Agriculture and Forest Resources	□ Air Quality
□ Biological Resources	□ Cultural Resources	□ Energy
□ Geology and Soils	□ Greenhouse Gas Emissions	□ Hazards and Hazardous Materials
□ Hydrology/Water Quality	□ Land Use/Planning	□ Mineral Resources
□ Noise	□ Population/Housing	□ Public Services
□ Recreation	□ Transportation/Traffic	□ Tribal Cultural Resources
□ Utilities/Service Systems	□ Wildfire	

Determination

Based on this initial evaluation:

□ I find that the proposed project WOULD NOT result in: (1) a peculiar impact that was not identified as a significant impact under the prior EIR; (2) a significant impact that was not analyzed as significant in the prior EIR; (3) a potentially significant off-site impact or cumulative impact not discussed in the prior EIR; or (4) a more severe impact due to substantial new information that was not known at the time the prior EIR. NO FURTHER ACTION is required and a Notice of Determination, pursuant to CEQA Guidelines Section 15094, will be filed indicating that the project IS ELIGIBLE for an EXEMPTION under CEQA Guidelines Section 15183.

☐ I find that the proposed project would result in: (1) a peculiar impact that was not identified as a significant impact under the prior EIR; (2) a significant impact that was not analyzed as significant in the prior EIR; (3) a potentially significant off-site impact or cumulative impact not discussed in the prior EIR; or (4) a more severe impact due to substantial new information that was not known at the time the prior EIR. I find that FURTHER ENVIRONMENTAL REVIEW is necessary to analyze those effects that are subject to CEQA, and therefore, this project is NOT ELIGIBLE for an EXEMPTION under CEQA Guidelines Section 15183.

Signature	Date
Printed Name	Title

Exemption Checklist

1 Aesthetics

	Project Peculiar Impact that is not Substantially Mitigated by Uniformly Applied Policies	Significant Impact not Analyzed as Significant in the prior EIR	Potentially Significant Off-site or Cumulative Impact not Discussed in the prior EIR	Adverse Impact More Severe based on Substantial New Information	GPU EIR Mitigation Measures apply to this Project Yes	GPU EIR Mitigation Measures apply to this Project No
Except as provided in PRC Section 21099, 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 point). 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 that would adversely affect day or nighttime views in the area?	□	□	□	□	□	■

City of Pomona General Plan Update, Corridors Specific Plan, Active Transportation Plan, and Green Plan EIR Summary

The GPU EIR analyzes aesthetics in pages 4.1-1 through 4.1-22. It reviews the potential for development accommodated by the GPU to result in adverse effects on scenic vistas and resources, light or glare that could adversely affect day or nighttime views, degradation of the visual character of the city or specific neighborhoods, and damage to scenic resources including historic buildings.

According to the GPU EIR, the city's topography is generally flat and local aesthetics at the neighborhood level comprise various urban visual characters. The GPU EIR states that the city is nearly built out and implementation of the GPU would result in reuse of properties, conversion of uses in response to market demand, and intensification of land uses in defined areas. New development under the GPU would accommodate approximately 44 percent of the Southern

California Association of Governments (SCAG) population growth forecast for Pomona. The amount of retail and office land uses would increase by about 41 percent and 14 percent, respectively.

Areas identified for greatest potential change under the GPU would undergo new or more intense development with increased building heights that may block views of scenic vistas and affect the aesthetic character of various areas in Pomona. The GPU EIR concludes that development projects would undergo further environmental and design review on a project-by-project basis to identify and address impacts to scenic vistas at the project level. The following goals and policies were included in the GPU to minimize scenic vista and resource impacts to be less than significant:

- **Pomona General Plan Goal 6C.G1**, to improve the physical compatibility between the city's major institutions and adjacent neighborhoods.
- **Pomona General Plan Goal 6C.G2**, to improve the function and appearance of transit, path, and corridor connections between the city's major institutions and downtown.
- **Pomona General Plan Goal 6G.G10, 7F.G5, and 7F.G6**, to ensure hillside development is sensitive to existing terrain, views, and significant natural landforms or features.
- **Pomona General Plan Policy 7F.P11**, to require visual impact analysis during review of public and private development projects.
- **Pomona General Plan Policy 7F.P13**, to require immediate re-vegetation of graded areas in new development.
- **Pomona General Plan Policy 7F.P14**, to allow creative development layouts that help to preserve contours and other natural features.

The GPU EIR states there are no officially designated State Scenic Highways in Pomona, though a segment of State Route (SR) 57, between SR 90 and SR 60, is considered eligible for designation. Several streets in the city are identified as scenic in the GPU, where damage to these streets would be avoided through implementation of GPU goals and policies designed to protect and enhance the visual character and quality of these scenic corridors. These GPU goals and policies guide the desired visual character and quality of specific districts, activity centers, and corridors in the city.

The GPU EIR states that the GPU does not anticipate substantial changes in areas of the city with established residential neighborhoods. Rather, existing conditions that may detract from the visual character and quality of corridors specified in the GPU would be updated through reuse and infill development to be complementary in type, form, scale, and character. GPU goals and policies, and objectives and strategies generally focus on maintaining and improving visual character and quality.

The GPU goals that pertain to the visual character and preservation of scenic resources include the following:

- **Pomona General Plan Goal 6D.G1**, to improve the physical character, economic vitality, and mobility function of the city's most visible and well-traveled corridors.
- **Pomona General Plan Goal 6G.G1**, to preserve and enhance the diversity of Pomona's neighborhoods.
- **Pomona General Plan Goal 6G.G6**, to ensure new residential development is well-integrated into adjacent neighborhood street patterns and provided with pedestrian connections.
- **Pomona General Plan Goal 6G.G9**, to ensure continuity in development scale and character with transitions between areas of differing use composition and density.

All new development would be required to conform to applicable GPU standards and existing building and development standards specified in the City's Municipal Code. The GPU EIR concludes impacts to scenic resources and visual character would be less than significant with adherence to GPU goals and policies, and existing development standards in the City's Municipal Code.

The city is mostly built out and a substantial amount of ambient light from urban uses already exists. Implementation of the GPU would result in infill of vacant lands, and intensification and reuse of existing sites. Most new development would not be located adjacent to large pieces of undeveloped lands, but for any new development that could occur next to undeveloped areas, Policy 7E.P6 would ensure new development adjacent to sensitive habitat minimizes nighttime lighting on sensitive habitat areas. Therefore, the GPU EIR concludes that impacts associated with light and glare effects would be less than significant.

Project-Specific Impacts

a. Would the project have a substantial adverse effect on a scenic vista?

A scenic vista is a view from a public place (roadway, designated scenic viewing spot, etc.) that is expansive and considered important. It can be obtained from an elevated position (such as from the top of a hillside) or it can be seen from a roadway with a longer-range view of the landscape. An adverse effect would occur if a proposed project would block or otherwise damage the scenic vista upon implementation.

The existing development on the site includes a church with a high peaked roof that exceeds three stories and two steeples that rise 15 to 20 feet above the roof peaks. The hillsides north of Interstate 10 (I-10) are visible when looking across the project site, where breaks in the built environment occur, but these do not constitute an actual scenic vista. Looking west across the site, beyond the church, the hillsides of the San Gabriel Mountains can be glimpsed behind adjacent single-family development and above-ground electrical transmission lines. Likewise, the southeast side of Orange Grove Avenue is lined with single-family residential development, beyond which the tops of the hillsides in the Chino Hills State Park can be seen. Above-ground transmission lines create visual clutter. Distant views are not available from the roadway when looking across the project site or looking west on Orange Grove Avenue, where intervening development and some mature trees obstruct views toward the mountain. West Orange Grove Avenue is a wide boulevard and it affords long views of the neighborhood.

As stated in Table 1, the proposed single-family residences would be two stories and 28 feet tall at their highest. They would be constructed in a horseshoe shape with nine of the homes situated in the area within the U of the horseshoe. Four houses would occur along Orange Grove Avenue, with landscaped setbacks between the houses and the roadway. Proposed building heights are within the height limits specified in the City's zoning code.

As discussed in the GPU EIR, new buildings and development anticipated in the GPU area could reduce views of scenic vistas. However, General Plan goals and policies (7F.G5, 7F.G6, and 7F.P10 through 7F.P14), aimed to preserve scenic vistas. The project site itself is relatively flat and located in an area with existing institutional and residential development. The project site and vicinity have limited distant views of the San Gabriel Mountains and Chino Hills State Park, and implementation of the project would not impact public views of these distance scenic resources.

The GPU EIR found that impacts would be less than significant as all projects would be required to comply with General Plan policies and City ordinances that protect scenic vistas. This project is

consistent with the analysis and conclusions provided in the GPU EIR. Therefore, the project would have a less than significant impact on scenic vistas.

b. Would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings along a state scenic highway?

Damage to scenic resources was analyzed in the GPU EIR. There are no officially designated State Scenic Highways in Pomona, though there are several streets identified as scenic in the GPU, but none of these is near the project site (City of Pomona 2013). The project site is located approximately 0.4 mile south of I-10, 1.4 miles northeast of SR 71, and over 4.5 miles north of SR 60. None of these routes are designated as a scenic highway through this area (California Department of Transportation [Caltrans] 2019). Furthermore, the site is too distant from SR 60 to be visible from the roadway; mature trees that extend above SR 71 and other residential development intervene between drivers on the roadway and the project site. Finally, I-10 is at-grade in the area closest to the project site and 12-foot walls intervene between the highway and the neighborhood to the south.

The project site is within an urbanized neighborhood with existing residential, commercial, and recreational uses in the vicinity. The project site does not have rock outcroppings or historic buildings (historic resources and existing buildings further discussed in Section 5, *Cultural Resources*). The project site contains ornamental trees that may be removed and replanted or replaced, but these trees are not visible from a designated State scenic highway.

The GPU EIR found that impacts would be less than significant as all projects would be required to comply with General Plan policies and City ordinances that protect scenic resources. This project is consistent with the analysis and conclusions provided in the GPU EIR. Therefore, the project would have a less than significant impact on scenic resources within a State scenic highway.

c. Would the project, in non-urbanized areas, substantially degrade the existing visual character or quality of the site and its surroundings? If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?

The GPU EIR concludes that compliance with established development policies and standards would reduce the potential for development projects to adversely alter the visual character of the built environment and the streetscape in areas identified for infill development under the GPU, resulting in a less than significant impact on visual character. The GPU calls for more residential-oriented mix of uses in the Neighborhood Parkway zones, with attention paid to buffering the edges of corridor housing and adjacent neighborhoods. The project would develop 33 two-story units on the site, well within the height limits imposed by the City standards.

The project site is developed with a church and associated parking and landscaped areas. The project site is adjacent to existing residential land uses along Orange Grove Avenue, north of the Holt Avenue Corridor and west of the Garey Avenue Corridor. The project would result in an intensification of residential uses, an effect that was analyzed at the programmatic level in the GPU EIR. Development standards for building form and character are included in the GPU; the project follows those standards and thus, proposed single-family residential uses would be two-stories high, and would include landscaped buffers between the roadway and the new development in a way that would enhance the existing an urban residential aesthetic in the zone. Exterior finishes would be neutral tones of cream, brown, and gray with stone and other naturalistic accents that would unify the design. Furthermore, the new development would add trees and ornamental plantings, and ground covers that would add to the urban forest at the same time they soften the effects of

the built environment and buffer the edges between the development and the street. Therefore, the project would have a less than significant impact with respect to existing visual character and quality.

d. Would the project create a new source of substantial light or glare that would adversely affect day or nighttime views in the area?

Pomona is primarily built out, and a substantial amount of ambient light from urban uses already exists. Implementation of the GPU would result in intensification and reuse of existing sites, as would be the case with the proposed project site. Glare and lighting effects associated with new structures in the vicinity of open spaces would be reduced with implementation of Policy 7E.P6, which states projects will, "ensure that lighting from new development adjacent to sensitive habitat, including Phillips Ranch, Westmont Hills, Mountain Meadows, and Ganesha Hills, minimizes nighttime lighting on these sensitive habitat areas."

The project site is not in the vicinity of sensitive habitat areas. The proposed buildings would be constructed in an area that already contains a church and a parking lot, along with adjacent residential uses and similar uses on the south side of Orange Grove Avenue. As noted in the GPU EIR, the project site is in an area that has a substantial amount of ambient lighting from existing uses. Furthermore, the unshaded church parking lot could have numerous vehicles parked, which could create a glare effect if the sun reflected on windshields. The project would entail development of the site with single-family homes that would also have planted trees and grass, along with limited paved areas for driveways and sidewalks. This would reduce the effect of glare from parked cars. Furthermore, the project would be constructed on a currently developed site that is adjacent to existing residential uses where limited exterior lighting, light from vehicles driving on West Orange Grove Avenue, and other light and glare from existing development.

New development, including the proposed project, would comply with City of Pomona lighting standards and the primary building materials (stucco, concrete, wood-grain exterior finishes) would not create high levels of glare. Reduced parking, increased planting, and adherence with the community and lighting design guidelines in the GPU would reduce the potential for impacts from light and glare.

The GPU EIR found that impacts would be less than significant as all projects would be required to comply with General Plan policies and City ordinances that reduce the effects of light and glare. This project is consistent with the analysis and conclusions provided in the GPU EIR. Therefore, the project would have a less than significant impact regarding light and glare.

Conclusion

Further environmental analysis is not required because:

1. No peculiar impacts to aesthetics or scenic resources that are not substantially mitigated have been identified as a result of the project or its site. Application of the uniformly applied GPU policies substantially mitigates potentially significant impacts to a level of less than significant.
2. There are no potentially significant impacts to aesthetics or scenic resources that were not analyzed as significant in the GPU EIR.
3. There are no potentially significant off-site and/or cumulative impacts that were not discussed by the GPU EIR.
4. No substantial new information has been identified that results in an aesthetic impact that is more severe than anticipated by the GPU EIR.
5. The conclusion of the GPU EIR relating to Aesthetics found all impacts to be less than significant. There are no mitigation measures contained in the GPU EIR that apply to aesthetics impacts.

2 Agriculture and Forestry Resources

	Project Peculiar Impact that is not Substantially Mitigated by Uniformly Applied Policies	Significant Impact not Analyzed as Significant in the prior EIR	Potentially Significant Off-site or Cumulative Impact not Discussed in the prior EIR	Adverse Impact More Severe based on Substantial New Information	GPU EIR Mitigation Measures apply to this Project Yes	GPU EIR Mitigation Measures apply to this Project No
In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:						
a. Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (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?	□	□	□	□	□	■

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The GPU EIR discusses agricultural resources impacts on page 4.8-40. As noted therein, Pomona is an almost completely urbanized community, with a minimal amount of agricultural lands in the southwestern part of the community associated with California Polytechnic University, Pomona ([Cal Poly Pomona], Spadra Farms).

Policy 6C.P16 of the GPU calls on the City to work with Cal Poly Pomona to identify appropriate uses at Spadra Farms and along the SR 57 corridor.

The area analyzed in the GPU EIR, including the project site, is not designated as Prime Farmland, Unique Farmland or Farmland of Statewide Importance by the State's Farmland and Mapping Program and not subject to an existing Williamson Act contract. The GPU EIR concluded that impacts associated with conversion of farmland would be less than significant, and no mitigation measures specific to agricultural impacts were required or identified.

Project-Specific Impacts

a. Would the project 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. Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract?

c. Would the project 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. Would the project result in the loss of forest land or conversion of forest land to non-forest use?

e. Would the project 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?

The project site and vicinity are within an urbanized area in the Pomona. There are no agricultural resources, Williamson Act-contracted land, or forest land located on or near the project site. The project site and all surrounding properties are classified as "Urban and Built-Up Land" on the State Department of Conservation's Farmland Mapping and Monitoring Maps (2016). The project would not convert agricultural land to non-agricultural uses or result in the loss of forest land or conversion of forest land to non-forest use. The site's urban zoning designation would not change. Therefore, the project would have no impact on agriculture or forestry resources.

Conclusion

Further environmental analysis is not required because:

1. No peculiar impacts to agriculture or forestry resources that are not substantially mitigated have been identified as a result of the project or its site. Application of the uniformly applied GPU policies substantially mitigates potentially significant impacts to a level of less than significant.
2. There are no potentially significant impacts to agriculture or forestry resources that were not analyzed as significant in the GPU EIR.
3. There are no potentially significant off-site and/or cumulative impacts that were not discussed by the GPU EIR.
4. No substantial new information has been identified that results in an agriculture or forestry resource impact that is more severe than anticipated by the GPU EIR.
5. The conclusion of the GPU EIR relating to Agriculture and Forestry Resources found all impacts to be less than significant. There are no mitigation measures contained in the GPU EIR that apply to impacts to Agriculture and Forestry Resources.

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3 Air Quality

	Project Peculiar Impact that is not Substantially Mitigated by Uniformly Applied Policies	Significant Impact not Analyzed as Significant in the prior EIR	Potentially Significant Off-site or Cumulative Impact not Discussed in the prior EIR	Adverse Impact More Severe based on Substantial New Information	GPU EIR Mitigation Measures apply to this Project Yes	GPU EIR Mitigation Measures apply to this Project No
Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:						
a. Conflict with or obstruct implementation of the applicable air quality plan?	□	□	□	□	□	■
b. 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?	□	□	□	□	□	■

City of Pomona General Plan Update, Corridors Specific Plan, Active Transportation Plan, and Green Plan EIR Summary

The GPU EIR discusses air quality impacts on pages 4.2-1 through 4.2-23. The GPU EIR examined a range of potential impacts related to local and regional air quality and determined that the GPU would be consistent with the adopted 2012 South Coast Air Quality Management Plan (AQMP) growth forecasts. The GPU EIR includes several goals and policies aimed at reducing air emission and improving air quality. As such, impacts related to potential conflicts with the adopted AQMP would be less than significant with adherence to GPU goals and policies. Specific GPU policies relevant to development anticipated under the GPU include the following:

- **Pomona General Plan Policy 7E.P17**, to require all large projects (exceeding 150,000 square feet of development) to incorporate Transportation Demand management (TDM) techniques, such as promoting carpooling and transit use and providing bicycle parking and showers, as a condition of project approval.
- **Pomona General Plan Policy 7E.P21**, to require all large construction projects to mitigate diesel exhaust emissions through use of alternative fuels and control devices, as appropriate and cost effective.
- **Pomona General Plan Policy 7E.P22**, to minimize emissions from residential and commercial uses by incorporating sustainable design solutions, requiring high efficiency heating and appliances, requiring compliance or exceedance of Title 24 for new

development, encouraging passive solar building design and landscaping, incorporating drought resistant landscaping, and providing natural gas hookups.

The air quality discussion herein is based on a project-specific air quality and greenhouse gas (GHG) study that was prepared by Rincon Consultants, Inc. (Appendix B). The air quality and GHG study provides an overview of air quality, briefly summarized below.

Air Quality Overview

The project site is located in Pomona in the South Coast Air Basin (SCAB), which is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD). The regional climate in the SCAB is semi-arid and is characterized by warm summers, mild winters, infrequent seasonal rainfall, moderate daytime onshore breezes, and moderate humidity. Air quality in the SCAB is primarily influenced by meteorology and a wide range of emission sources, such as dense population centers, substantial vehicular traffic, and industry.

Air pollutant emissions in the SCAB are generated primarily by stationary and mobile sources. Stationary sources can be divided into two major subcategories: point and area sources. Point sources occur at a specific location and are often identified by an exhaust vent or stack. Examples include boilers or combustion equipment that produce electricity or generate heat. Area sources are widely distributed and include such sources as residential and commercial water heaters, painting operations, lawn mowers, agricultural fields, landfills, and some consumer products. Mobile sources refer to emissions from motor vehicles, including tailpipe and evaporative emissions, and are classified as either on-road or off-road. On-road sources may be legally operated on roadways and highways. Off-road sources include aircraft, ships, trains, and self-propelled construction equipment. Air pollutants can also be generated by the natural environment, such as when high winds suspend fine dust particles (Appendix B).

Regulatory Setting

As the regional air quality management district, the SCAQMD is required to monitor air pollutant levels to ensure that state and federal air quality standards are met and, if they are not met, to develop strategies to meet the standards. Depending on whether or not the standards are met or exceeded, the Basin is classified as being in “attainment” or “nonattainment.” The health effects associated with criteria pollutants upon which attainment of state and federal air quality standards is measured are described in Table 2.

Table 2 Health Effects Associated with Criteria Pollutants

Pollutant	Adverse Effects
Ozone	(1) Short-term exposures: pulmonary function decrements and localized lung edema in humans and animals, risk to public health implied by alterations in pulmonary morphology and host defense in animals; (2) long-term exposures: risk to public health implied by altered connective tissue metabolism and altered pulmonary morphology in animals after long-term exposures and pulmonary function decrements in chronically exposed humans; (3) vegetation damage; and (4) property damage.
Carbon monoxide (CO)	Reduces oxygen delivery leading to: (1) Aggravation of chest pain (angina pectoris) and other aspects of coronary heart disease; (2) decreased exercise tolerance in persons with peripheral vascular disease and lung disease; (3) impairment of central nervous system functions; and (4) possible increased risk to fetuses.
Nitrogen dioxide (NO_2)	(1) Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups; (2) risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structural changes; and (3) contribution to atmospheric discoloration.
Sulfur dioxide (SO_2)	(1) Bronchoconstriction accompanied by symptoms that may include wheezing, shortness of breath, and chest tightness during exercise or physical activity in persons with asthma.
Suspended particulate matter (PM_{10})	(1) Excess deaths from short-term and long-term exposures; (2) excess seasonal declines in pulmonary function, especially in children; (3) asthma exacerbation and possibly induction; (4) adverse birth outcomes including low birth weight; (5) increased infant mortality; (6) increased respiratory symptoms in children such as cough and bronchitis; and (7) increased hospitalization for both cardiovascular and respiratory disease (including asthma).[1]
Suspended particulate matter ($PM_{2.5}$)	(1) Excess deaths from short- and long-term exposures; (2) excess seasonal declines in pulmonary function, especially in children; (3) asthma exacerbation and possibly induction; (4) adverse birth outcomes, including low birth weight; (5) increased infant mortality; (6) increased respiratory symptoms in children, such as cough and bronchitis; and (7) increased hospitalization for both cardiovascular and respiratory disease, including asthma.

[1] More detailed discussion on the health effects associated with exposure to suspended particulate matter can be found in the following documents: Office of Environmental Health Hazard Assessment, Particulate Matter Health Effects and Standard Recommendations, www.oehha.ca.gov/air/toxic_contaminants/PM10notice.html#may, May 9, 2002; and U.S Environmental Protection Agency (USEPA), Air Quality Criteria for Particulate Matter, October 2004.

Source: USEPA 2016

The SCAQMD has adopted an Air Quality Management Plan (AQMP) that addresses several state and federal planning requirements and incorporates new scientific information, primarily in the form of updated emissions inventories, ambient measurements, and meteorological air quality models. The Southern California Association of Governments' (SCAG) projections for socio-economic data (e.g., population, housing, employment by industry) and transportation activities from the 2016 Regional Transportation Plan/Sustainable Communities Strategy (2016 RTP/SCS) are integrated into the 2016 AQMP. The SCAQMD recommends quantitative regional significance thresholds for temporary construction activities and long-term project operation in the SCAB. These thresholds are shown in Table 3.

Table 3 SCAQMD Air Quality Significance Thresholds

Construction Thresholds	Operational Thresholds
75 pounds per day of ROG	55 pounds per day of ROG
100 pounds per day of NO_X	55 pounds per day of NO_X
550 pounds per day of CO	550 pounds per day of CO
150 pounds per day of SO_X	150 pounds per day of SO_X
150 pounds per day of PM_{10}	150 pounds per day of PM_{10}
55 pounds per day of $PM_{2.5}$	55 pounds per day of $PM_{2.5}$

[1] Reactive Organic Gases (ROG) are formed during combustion and evaporation of organic solvents. ROG are also referred to as Volatile Organic Compounds (VOC).

Source: SCAQMD 2019

The SCAQMD has also developed Localized Significance Thresholds (LSTs), which were devised in response to concern regarding exposure of individuals to criteria pollutants in local communities. LSTs represent the maximum emissions from a project that will not cause or contribute to an air quality exceedance of the most stringent applicable federal or state ambient air quality standard at the nearest sensitive receptor, taking into consideration ambient concentrations in each source receptor area (SRA), distance to the sensitive receptor, and project size. LSTs have been developed for emissions within construction areas up to five acres in size. However, LSTs only apply to emissions in a fixed stationary location and are not applicable to mobile sources, such as cars on a roadway (SCAQMD 2008). As such, LSTs are typically applied only to construction emissions because most operational emissions are associated with project-generated vehicle trips (Appendix B).

The SCAQMD provides LST lookup tables for project sites that measure one, two, or five acres. Although the project site is larger than five acres, it is unlikely that more than five acres of the site would be developed at a time. Project construction would occur on an area approximately 3.6 acres in size; therefore, as a conservative analysis, the two-acre LSTs were used. LSTs are provided for receptors at 82 to 1,640 feet from the project disturbance boundary to the sensitive receptors. Construction activity would occur within approximately 25 feet north, south, east, and west of the closest sensitive receptors, which consist of single-family residences adjacent to the site. According to the SCAQMD's publication, *Final LST Methodology*, projects with boundaries located closer than 82 feet to the nearest receptor should use the LSTs for receptors located at 82 feet. Therefore, the analysis below uses the LST values for 82 feet. The project is in SRA-10 (Pomona/Walnut Valley). LSTs for construction in SRA-10 on a two-acre site with a receptor 82 feet away are shown in Table 4.

Table 4 SCAQMD LSTs for Construction (SRA 10)

Pollutant	Allowable Emissions for a Two-acre Site in SRA 10 for a Receptor 82 Feet Away (lbs/day)
Gradual conversion of NO_X to NO_2	149
CO	885
PM_{10}	6
$PM_{2.5}$	4

Source: SCAQMD 2009

Project-Specific Impacts

a. Would the project conflict with or obstruct implementation of the applicable air quality plan?

A project may be inconsistent with the AQMP if it would generate population, housing, or employment growth exceeding forecasts used in the development of the AQMP. The 2016 AQMP, the most recent AQMP adopted by the SCAQMD, incorporates local city general plans and the SCAG's 2016 RTP/SCS socioeconomic forecast projections of regional population, housing, and employment growth.

According to the California Department of Finance (DOF), the City of Pomona has an estimated population of 154,817 and a household count of 41,822 (DOF 2020). Based on the City's Housing Element, amended in 2018, the average household size is 3.85 persons (City of Pomona 2018a). The project involves the demolition of an existing church, open and recreational space, and parking lot servicing the church and the development of 33 single-family residences with open space and parking spaces fronting Orange Grove Avenue. Therefore, the project would increase the local population by up to 127 persons (33 units x 3.85 persons per unit). Furthermore, as a residential development, the project would not directly contribute to population or employment growth in the City through new employment.

The population growth forecasts in SCAG's 2016 RTP/SCS estimate that the City's population would increase to 190,400 in 2040, which is an increase of 35,583 people from the City's population in 2020 (SCAG 2016). Based on an estimated increase of 127 persons, the project would account for less than one percent of the forecasted population growth between 2020 and 2040. Therefore, the project would not contribute to population growth in the City beyond that planned for by the SCAG 2016 RTP/SCS. (Discussion of the anticipated project population growth in relation to SCAG's 2020-2045 RTP/SCS is included in Section 14, *Population and Housing*).

Similarly, the household growth forecasts in SCAG's 2016 RTP/SCS estimate that the total number of households in Pomona would increase to 51,100 in 2040, for an increase of 9,278 households from 2020 estimates (SCAG 2016). The project would increase the number of households by 33, which would account for less than one percent of the forecasted increase between 2020 and 2040. Therefore, the project's contribution to housing in the City would be within SCAG growth projections.

In October 2012, SCAG adopted the Regional Housing Needs Assessment (RHNA) for the 2013-2021 Housing Element cycle for jurisdictions with the SCAG region, covering a 7.8-year planning period beginning on October 13, 2013. The RHNA quantifies the need for housing in each jurisdiction, including the City of Pomona, and currently requires that the City produce 3,623 housing units (City of Pomona 2018a). According to the City's RHNA 6th Cycle and Housing Strategies Discussion on August 19, 2019, the City has currently met approximately 24 percent of that need which equates to approximately 870 units (City of Pomona 2019). Therefore, implementation of the project would contribute an additional 33 units and further assist the City in meeting RHNA requirements.

The AQMP also provides strategies and measures to reach attainment with the thresholds for 8-hour and 1-hour ozone and $PM_{2.5}$. As shown in Table 5 and Table 6 in the following analysis, the proposed project would not generate criteria pollutant emissions that would exceed SCAQMD thresholds for ozone precursors (ROG and NO_X) and $PM_{2.5}$. Since the project would also be consistent with population and housing growth projections for the City, the project would not conflict with or obstruct implementation of the AQMP and impacts would be less than significant.

b. Would the project 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?

In accordance with CEQA Guidelines Section 15064(h)(3), the SCAQMD's approach for assessing cumulative impacts is based on the AQMP forecasts of attainment of ambient air quality standards in accordance with the requirements of the federal and State Clean Air Acts. If the project's mass regional emissions do not exceed the applicable SCAQMD, then the project's criteria pollutant emissions would not be cumulatively considerable.

Construction Impacts

Table 5 summarizes the estimated maximum daily emissions (lbs) of pollutants associated with construction of the project. As shown below, ROG, NO_X, CO, SO_2, PM_{10}, and $PM_{2.5}$ emissions would not exceed SCAQMD regional thresholds or LSTs. Because the project would not exceed SCAQMD's regional construction thresholds or LSTs, project construction would not result in a cumulatively considerable net increase of a criteria pollutant for which the project region is in non-attainment, and impacts would be less than significant.

Table 5 Project Construction Emissions

	Maximum Emissions (lbs/day)					
	ROG	**NO_x**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Construction Year 2021	32	46	38	<1	5	4
Construction Year 2022	30	18	19	<1	1	1
Maximum Daily Construction Emissions	32	46	38	<1	5	4
SCAQMD Regional Thresholds	75	100	550	150	150	55
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**
Maximum Daily On-site Emissions	32	42	35	<1	4	1
SCAQMD Localized Significance Thresholds (LSTs)	N/A	149	885	N/A	6	4
Threshold Exceeded?	**N/A**	**No**	**No**	**N/A**	**No**	**No**

Notes: All emissions modeling was completed using CalEEMod. See Appendix B for modeling results. Some numbers may not add up due to rounding. Emission data is pulled from "mitigated" results, which account for compliance with regulatory compliance measures. Emissions presented are the highest of the winter and summer modeled emissions. Maximum on-site emissions are the highest emissions that would occur on the project site from on-site sources such as heavy construction equipment and architectural coatings and excludes off-site emissions from sources such as construction worker vehicle trips and haul truck trips.

Operational Impacts

Table 6 summarizes the project's operational emissions by emission source (area, energy, mobile, and generator). As shown below, the emissions generated by operation of the proposed project would not exceed SCAQMD regional thresholds for criteria pollutants. Therefore, the project would not contribute substantially to an existing or projected air quality violation. In addition, because criteria pollutant emissions and regional thresholds are cumulative in nature, the project would not result in a cumulatively considerable net increase of criteria pollutants.

Table 6 Project Operational Emissions

Emission Source	Maximum Daily Emissions (lbs/day)					
	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Area	1	<1	3	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1
Mobile	<1	2	7	<1	2	<1
Project Emissions	2	3	10	<1	2	1
SCAQMD Regional Thresholds	55	55	550	150	150	55
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: Area, energy, and mobile emissions modeling was completed using CalEEMod; see Appendix B for modeling results. On-site exhaust emission calculations are included in Appendix B. Some numbers may not add up due to rounding. Emission data is pulled from "mitigated" results that include compliance with regulatory compliance measures. Emissions presented are the highest of the winter and summer modeled emissions.

Cumulative Impacts

The cumulative context for air quality is regional. The SCAB is designated a nonattainment area for the federal and state one-hour and eight-hour ozone standards, the state PM_{10} standards, the federal 24-hour $PM_{2.5}$ standard, and the federal and state annual $PM_{2.5}$ standard. SCAB is in attainment of all other federal and state standards. The project would contribute particulate matter and the ozone precursors ROG and NO_X to the area during construction and operation. As described above, regional emissions during construction would not violate an air quality standard or contribute substantially to an existing or projected air quality violation; and would be less than significant. With respect to localized impacts, the consideration of cumulative construction particulate matter impacts is limited to cases when projects constructed simultaneously are within a few hundred yards of each other because of: (1) the combination of the short range (distance) of particulate dispersion (especially when compared to gaseous pollutants); and (2) the SCAQMD's required dust control measures which further limit particulate dispersion from a project site. Therefore, with the implementation of dust control measures, the unlikelihood that construction would occur within a few hundred yards of major off-site construction, and compliance with SCAQMD regional construction emission thresholds, the project would not contribute a cumulatively considerable amount of pollutants from construction emissions. Project impacts would be less than significant.

c. Would the project expose sensitive receptors to substantial pollutant concentrations?

Localized Carbon Monoxide Hotspot Impact

A carbon monoxide (CO) hotspot is a localized concentration of CO that is above a CO ambient air quality standard. Localized CO hotspots can occur at intersections with heavy peak hour traffic. Specifically, hotspots can be created at intersections where traffic levels are sufficiently high such that the local CO concentration exceeds the federal one-hour standard of 35.0 ppm or the federal and state eight-hour standard of 9.0 ppm (CARB 2016).

The entire SCAB is in conformance with state and federal CO standards, and most air quality monitoring stations no longer report CO levels. In 2019, the Azusa– 803 North Loren Avenue station detected an eight-hour maximum CO concentration of 1.3 ppm, which is substantially below the state and federal standard of 9.0 ppm (CARB 2020a). As shown in Table 5, maximum daily CO

emissions generated by project construction would be 38 pounds, and maximum on-site emissions generated by project construction would be 22 pounds, which would not exceed SCAQMD's regional threshold (550 pounds per day) or LST (1,566 pounds per day) for CO. Likewise, as shown in Table 6, project operations from area, energy, and mobile emissions sources combined would result a net increase in maximum daily CO emissions of approximately 10 pounds. Both the SCAQMD's regional thresholds and LSTs are designed to be protective of public health. Based on the low background level of CO in the project area, ever-improving vehicle emissions standards for new cars in accordance with state and federal regulations, and the project's low level of operational CO emissions, the project would not create new CO hotspots. Therefore, the proposed project would not expose sensitive receptors to substantial CO concentrations, and localized air quality impacts related to CO hot spots would be less than significant.

Toxic Air Contaminants (TACs)

Construction Impacts

Construction-related activities would result in short-term, project-generated emissions of diesel particulate matter (DPM) exhaust emissions from off-road, heavy-duty diesel equipment for site preparation grading, building construction, and other construction activities. DPM was identified as a toxic air contaminant (TAC) by CARB in 1998. The potential cancer risk from the inhalation of DPM (discussed in the following paragraphs) outweighs the potential non-cancer health impacts (CARB 2017a).

Generation of DPM from construction projects typically occurs in a single area for a short period. Construction of the proposed project would occur over approximately five years. The dose to which the receptors are exposed is the primary factor used to determine health risk. Dose is a function of the concentration of a substance or substances in the environment and the extent of exposure that person has with the substance. Dose is positively correlated with time, meaning that a longer exposure period would result in a higher exposure level for the Maximally Exposed Individual. The risks estimated for a Maximally Exposed Individual are higher if a fixed exposure occurs over a longer period of time. According to the Office of Environmental Health Hazard Assessment (OEHHA), health risk assessments, which determine the exposure of sensitive receptors to toxic emissions, should be based on a 30-year exposure period (assumed to be the approximate time that a person spends in a household). OEHHA recommends this risk be bracketed with 9-year and 70-year exposure periods. Health risk assessments should be limited to the period/duration of activities associated with the project.

The maximum $PM_{2.5}$ emissions, which is used to represent DPM emissions for this analysis, would occur during site preparation and grading activities. While site preparation and grading emissions represent the worst-case condition, such activities would only occur for approximately one month, less than two percent, one percent, and 0.2 percent of the typical health risk calculation period of 9 years, 30 years, and 70 years, respectively. $PM_{2.5}$ emissions would decrease for the remaining construction period because construction activities such as building construction and paving would require less construction equipment. Therefore, given the aforementioned, DPM generated by project construction is not expected to create conditions where the probability that the Maximally Exposed Individual would contract cancer is greater than 10 in one million or to generate ground-level concentrations of noncarcinogenic TACs that exceed a Hazard Index greater than one for the Maximally Exposed Individual. This impact would be less than significant.

Operational Impacts

Sources of operational TAC's include, but are not limited to, land uses such as freeways and high-volume roadways, truck distribution centers, ports, rail yards, refineries, chrome plating facilities, dry cleaners using perchloroethylene, and gasoline dispensing facilities. Project operation does not involve any of these uses; the proposed residential development project is not considered a source of TACs. Therefore, impacts would be less than significant.

d. Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

For construction activities, odors would be short-term in nature and are subject to SCAQMD Rule 402 *Nuisance*. Construction activities would be temporary and transitory and associated odors would cease upon construction completion. Accordingly, the project would not create objectionable odors affecting a substantial number of people during construction, and short-term impacts would be less than significant.

The project entails construction of 33 single-family residences with private and common outdoor spaces, tot lot, and residential and guest parking. The GPU EIR acknowledges that certain uses may generate odors that affect the public. The project land uses are not listed on Figure 4-3 of the 1993 SCAQMD *CEQA Air Quality Handbook* as uses that require analysis of odor impacts. Further, residential uses are not identified on Figure 5-5, *Land Uses Associated with Odor Complaints*, of the Handbook (1993). Substantial objectionable odors are normally associated with such uses as agriculture, wastewater treatment, industrial facilities, or landfills. The proposed residential use would not generate objectionable odors affecting a substantial number of people. Solid waste generated by on-site uses would be collected by a City-contracted waste hauler, ensuring that any odors resulting from on-site waste be managed and collected in a manner to prevent the proliferation of odors. Therefore, the project would have no impact on other emissions such as odors.

Conclusion

Further environmental analysis is not required because:

1. No peculiar impacts that are not substantially mitigated have been identified as a result of the project or its site. Application of the uniformly applied GPU policies substantially mitigates potentially significant impacts to a level of less than significant.
2. There are no potentially significant impacts that were not analyzed as significant in the GPU EIR.
3. There are no potentially significant off-site and/or cumulative impacts that were not discussed by the GPU EIR.
4. No substantial new information has been identified that results in an impact that is more severe than anticipated by the GPU EIR.
5. The conclusion of the GPU EIR relating to Air Quality found all impacts to be less than significant. There are no mitigation measures contained in the GPU EIR that apply to impacts to Air Quality.

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4 Biological Resources

	Project Peculiar Impact that is not Substantially Mitigated by Uniformly Applied Policies	Significant Impact not Analyzed as Significant in the prior EIR	Potentially Significant Off-site or Cumulative Impact not Discussed in the prior EIR	Adverse Impact More Severe based on Substantial New Information	GPU EIR Mitigation Measures apply to this Project Yes	GPU EIR Mitigation Measures apply to this Project No
Would the project:						
a. Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and 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, regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	□	□	□	□	□	■
c. Have a substantial adverse effect on 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?	□	□	□	□	□	■

	Project Peculiar Impact that is not Substantially Mitigated by Uniformly Applied Policies	Significant Impact not Analyzed as Significant in the prior EIR	Potentially Significant Off-site or Cumulative Impact not Discussed in the prior EIR	Adverse Impact More Severe based on Substantial New Information	GPU EIR Mitigation Measures apply to this Project Yes	No
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?	□	□	□	□	□	■

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The GPU EIR discusses biological resources impacts on pages 4.3-1 through 4.3-27. As noted therein, "the majority of development in the City under the proposed GPU would consist of infill and urban expansion of developed areas, which do not support a wide diversity of biological resources. Land inside the City boundaries are largely urbanized and contain few significant biological resources. Further, existing natural resources are fragmented and surrounded by development." However, the following General Plan policies were amended and added as a result of the GPU EIR to reduce project impact on biological resources:

- **Pomona General Plan Policy 7E.P7**, amended as GPU EIR Mitigation Measure BIO-4 to state: Coordinate with Los Angeles County to protect the East San Gabriel Valley Significant Ecological Area (SEA #6). Develop local regulations to protect areas in and adjacent to SEA #6 and adjacent SEAs such as Buzzard Peak – San Jose Hills SEA, including the possibility of identifying the East San Gabriel Valley SEA area with an overlay district in the Zoning Ordinance.
- **Pomona General Plan Policy 7E.P11**, included as GPU EIR Mitigation Measure BIO-3 to state: Prior to development of areas with drainage features such as ponds, detention basins, or wetlands, a site specific investigation shall be conducted to define the extent of drainage features, determine wetland permit requirements, and propose measures to mitigate any impacts on the resources.
- **Pomona General Plan Policy 7E.P12**, amended as GPU EIR Mitigation Measure BIO-1 to state: Conduct presence/absence biological surveys for sensitive plant and animal species during the appropriate time of year and time of day in natural areas prior to any construction activities proposed adjacent to or in natural areas. If no special-status species are detected during these surveys, then construction-related activities may proceed. If listed special-status species are found in the construction zone, then avoid these species and their habitat or consult with U.S. Fish and Wildlife prior to the commencement of construction.
- **Pomona General Plan Policy 7E.P13**, included as GPU EIR Mitigation Measure BIO-2 to state: Conduct nesting bird surveys prior to any construction activities, including projects proposed to remove/disturb native and ornamental landscaping and other nesting habitat for native birds during bird breeding season from March 1 through August 31 (as early January 1 for some raptors). If no nesting birds are detected during these surveys, then construction-related activities may proceed. Active nests in and adjacent to the construction

zone should be avoided and provided a minimum buffer as determined by a biological monitor (CDFW recommends a 300 foot nest avoidance buffer or 500 feet for all active raptor nests) or consult with the U.S. Fish and Wildlife Service and/or California Department of Fish and Wildlife prior to the commencement of construction.

The GPU EIR concluded that impacts associated with biological resources would be less than significant following implementation of General Plan goals and policies, and additional and amended policies stated above, to reduce impacts to special-status species, nesting birds, and wetlands where they may occur.

Project-Specific Impacts

a. *Would the project 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 Wildlife or U.S. Fish and Wildlife Service?*

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

c. *Would the project 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. *Would the project 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?*

The project site and vicinity are within a highly urbanized area, as described in the GPU EIR. The project site has no value as habitat for endangered, rare, or threatened species since the site lacks habitat that would be suitable for sensitive animal or plant species. In addition, the project site itself is developed and has been used as a church with associated on-site parking, recreation courts, and landscaped areas. A reconnaissance site visit was completed on October 22, 2020 by a biologist from Rincon Consultants, Inc. The site visit confirmed the presence of large pine, pepper, and sycamore trees on the project site as well as other ornamental vegetation and an oak tree (of less than 8 inches diameter breast height). No sensitive plant or wildlife species were observed on the project site, though common avian species expected of developed residential areas were observed (which include: song sparrow [*Melospiza melodia*], northern mockingbird [*Mimus polyglottos*], American crow [*Corvus brachyrhynchos*], Anna's hummingbird [Calypte anna], California towhee [*Melozone crissalis*], mourning dove [*Zenaida macroura*], and Lesser goldfinch [*Spinus psaltria*]).

Existing vegetation on the project site does not provide quality or sufficient habitat for sensitive species due to the limited size of the project site, lack of native vegetation, prior disturbance, and existing urban context. The project site and vicinity do not contain any federally protected wetlands or riparian or other habitat (USFWS 2020). The project site is surrounded by existing residential uses; there are no wildlife corridors that connect the project site to other wildlife habitat areas, and the project site is fully developed. Therefore, the project would have a less than significant impact.

e. Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

The project site contains ornamental trees that would be removed and replanted or replaced. The reconnaissance site visit confirmed the presence of large pine, pepper, and sycamore trees on the project site as well as other ornamental vegetation and an oak tree (of less than 8 inches diameter breast height). The proposed landscape plan is included in Appendix A and shows existing trees that may be affected by the project would be replaced with an equal or greater number of street trees of species and size. The project would have no conflict with local policies or ordinances protecting biological resources, including trees. Therefore, the project would have a less than significant impact.

f. Would the project 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 adopted Habitat Conservation Plans, Natural Community Conservation Plans or other approved local, regional, or state habitat conservation plans apply to the project site. In addition, infill development and urban expansion were considered in the GPU EIR, including on the project site. Therefore, the project would have a less than significant impact.

Conclusion

Further environmental analysis is not required because:

1. No peculiar impacts to biological resources that are not substantially mitigated have been identified as a result of the project or its site. Application of the uniformly applied GPU policies substantially mitigates potentially significant impacts to a level of less than significant.
2. There are no potentially significant impacts to biological resources that were not analyzed as significant in the GPU EIR.
3. There are no potentially significant off-site and/or cumulative impacts that were not discussed by the GPU EIR.
4. No substantial new information has been identified that results in a biological resource impact that is more severe than anticipated by the GPU EIR.
5. The GPU EIR included four mitigation measures to address impacts to Biological Resources. These mitigation measures were incorporated into the GPU policies. Implementation of GPU Policy 7E.P13 would ensure potential project impacts to Biological Resources would be less than significant. No additional mitigation measures contained in the GPU EIR apply to impacts to Biological Resources.

5 Cultural Resources

	Project Peculiar Impact that is not Substantially Mitigated by Uniformly Applied Policies	Significant Impact not Analyzed as Significant in the prior EIR	Potentially Significant Off-site or Cumulative Impact not Discussed in the prior EIR	Adverse Impact More Severe based on Substantial New Information	GPU EIR Mitigation Measures apply to this Project Yes	GPU EIR Mitigation Measures apply to this Project No
Would the project:						
a. Cause a substantial adverse change in the significance of a historical resource as defined in 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 formal cemeteries?	□	□	□	□	□	■

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The GPU EIR discusses cultural resources impacts on pages 4.4-1 through 4.4-24. According to the GPU EIR, there are several designated historic resources throughout the City that may be affected by development under the GPU. However, Pomona's existing development review processes protect locally designated historic resources from demolition, inappropriate alteration, and incompatible adjacent development. Furthermore, all projects in the City are subject to CEQA review, which would include evaluation of potential project-related impacts to national or California Register-listed properties. The GPU EIR concludes that impacts to historical resources would be less than significant with mitigation incorporated. General Plan policies were amended or added as a result of the GPU EIR to reduce project impact on cultural resources:

- **Pomona General Plan Goal 7F.G10**, to promote the protection and preservation of important archaeological sites.
- **Pomona General Plan Policy 7F.P40**, amended as GPU EIR Mitigation Measure CUL-1 to state: Require that, prior to the issuance of a permit to demolish or substantially alter any of the potential historic resources identified in the Appendix of the Historic Resources Technical Report prepared by Architectural Resources Group (July 2012), the City shall require the completion of a historical evaluation of the affected potential resources(s). The evaluation shall be completed by an architectural historian satisfying the Secretary of the Interior's Historic Preservation Professional Qualifications Standards and shall determine whether or not each of the affected potential resources appears eligible for designation as a local landmark or as a contributor to a local district.

If a project is found to affect one or more resources that appear eligible for local designation, then the project shall be fully subject to the Certificate of Appropriateness procedures as specified in Section 5809-13(F) of Pomona's Zoning Ordinance. (In other words, for purposes of project review, the resources(s) found to be eligible for local designation shall be treated the same as locally designated resources, whether or not they have been formally designated.)

- **Pomona General Plan Policy 7F.P41**, to maintain sources of information regarding paleontological and archeological sites and the names and addresses of responsible organizations and qualified individuals, who can analyze, classify, record, and preserve paleontological or archaeological findings.
- **Pomona General Plan Policy 7F.P42**, to require a qualified paleontologist/archaeologist to monitor all grading and/or excavation where there is a potential to affect cultural, archaeological, or paleontological resources.
- **Pomona General Plan Policy 7F.P43**, to require new development to donate scientifically valuable paleontological or archaeological materials to a responsible public or private institution with a suitable repository, located in Pomona or Los Angeles County, whenever possible.

Project-Specific Impacts

a. Would the project cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5?

As stated in the GPU EIR, the types of project impacts that may cause a "substantial adverse change" in the significance of a historical resource include one or more of the following:

- Demolition or substantial alteration without consideration of historic features
- Incompatible massing, size, scale, or architectural style of new development adjacent to one or more historical resources
- Obstruction or extensive shading of significant views to and from a historical resource by new development
- Incompatible re-use of a historical resource
- Disruption of a historical resource's integrity of setting
- Long-term loss of access to a historical resource

The project site is fully developed with existing church uses and is within an urbanized neighborhood adjacent to residential uses. A Cultural Resources Assessment was completed for the project site by BCR Consulting, LLC. in 2020 and the report is included as Appendix C. The project site was used as an orange grove since the late 1800s, and then developed for residential use in the 1920s until it was purchased by the Pomona Fellowship Church of the Brethren in 1949. The Pomona Fellowship Church of the Brethren maintained an existing house and detached garage that was on site which became a part of the church (BCR Consulting, LLC 2020). Presently, there are three historic-period buildings identified on the project site:

- Pomona Church of the Brethren: A 19,604 square-foot single-storied building that was developed in stages, with the original church in 1949 in a traditional style with references to the Tudor Revival style, and a west wing sanctuary in 1959 in Modernist church architecture style.
- 861 W. Orange Grove Avenue, Building #1: A rectangular-plan Tudor Revival single-story house, originally constructed around 1922.

- 861 W. Orange Grove Avenue, Building #2: A single-story square-plan building, originally used as a garage when constructed in 1932 and lacking in decorative features or references to any particular architectural style.

All three existing buildings were not recommended as eligible for listing in the California Register of Historic Resources (CRHR; California Register) and not qualified to be considered as "historical resources" under CEQA due to the buildings not meeting one or more of the CRHR criteria for inclusion in the California Register (BCR Consulting, LLC 2020). There are no buildings or structures of historic significance on the project site or immediate vicinity according to General Plan Figure 7-F.2, *Historic Districts and Landmarks* (City of Pomona 2014).

The project would comply with the City's standard conditions pertaining to historic resources should such resources, previously unknown, be encountered during ground disturbing construction activities. The City's standard conditions include procedures to halt work until found resources are appropriately handled, assessed, and/or recorded by qualified personnel to prevent damage to found resources. Therefore, the project would have a less than significant impact on historical resources.

b. Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?

As discussed in the GPU EIR, archaeological materials associated with occupation of the City are known to exist throughout the City and have the potential to provide important scientific information regarding history and prehistory. The GPU EIR identified impacts to unrecorded subsurface archaeological resources as less than significant with mitigation incorporated.

The project site is fully developed and within an urbanized area. An archival records search of the project site and vicinity was conducted to review all recorded historic and prehistoric cultural resources and survey and excavation reports completed within one-mile of the project site. A cultural resources field survey was also completed in July 2019 and determined that ground visibility of the site is low since approximately 50 percent of the site is paved and/or built and the remaining 50 percent of the site is landscaped. The field survey and records review indicate that there are no significant archaeological resources located within the project site. No archaeological resources were identified within a one-mile radius of the project site, and the site was determined to have low sensitive for significant buried archaeological remains based on its past uses as an orange grove prior to development and use as a private residence and church facilities (BCR Consulting, LLC 2020).

Though unanticipated, project construction activities (such as excavation, grading, and site preparation) have the potential to impact previously unidentified archaeological resources. Potentially significant impacts would occur if the implementation of the project would result in construction activities that would damage previously unidentified significant archaeological resources. Adherence to GPU Policy 7F.P42 would reduce project impacts to archaeological resources to a less than significant level. Furthermore, the project would comply with the City's standard conditions pertaining to archaeological resources should such resources, previously unknown, be encountered during ground disturbing construction activities. The City's standard conditions include procedures to halt work until found resources are appropriately handled, assessed, and/or recorded by qualified personnel to prevent damage to found resources. Therefore, the project would have a less than significant impact on archaeological resources.

c. Would the project disturb any human remains, including those interred outside of formal cemeteries?

Though unanticipated, construction activities on the project site have the potential to impact previously unidentified human remains. Section 7050.5 of the California Health and Safety Code states:

> In the event of discovery or recognition of any human remains in any location other than a dedicated cemetery, there shall be no further excavation or disturbance of the site, or any nearby area reasonably suspected to overlay adjacent remains, until the County Coroner has examined the remains. If the Coroner determines the remains to be those of a Native American, or has reason to believe that they are those of a Native American, the Coroner shall contact by telephone within 24 hours the NAHC. In addition, any person who mutilates or disinters, wantonly disturbs, or willfully removes any human remains in or from any location other than a dedicated cemetery without authority of law is guilty of a misdemeanor.

If Native American human remains are identified during construction, the Native American Heritage Commission will identify a Native American Most Likely Descendant to inspect the site and provide recommendations for the proper treatment of the remains and associated grave goods. CEQA Guidelines Section 15064.5 directs the lead agency (or applicant), under certain circumstances, to develop an agreement with the Native Americans for the treatment and disposition of the remains and any associated grave goods. Native American human remains and associated grave goods shall be treated with culturally appropriate dignity. Compliance with these existing requirements would reduce project impacts to human remains to a less than significant level. Therefore, the project would have a less than significant impact on human remains.

Conclusion

Further environmental analysis is not required because:

1. No peculiar impacts to cultural resources that are not substantially mitigated have been identified as a result of the project or its site. Application of the uniformly applied GPU policies substantially mitigates potentially significant impacts to a level of less than significant.
2. There are no potentially significant impacts to cultural resources that were not analyzed as significant in the GPU EIR.
3. There are no potentially significant off-site and/or cumulative impacts that were not discussed by the GPU EIR.
4. No substantial new information has been identified that results in a cultural resources impact that is more severe than anticipated by the GPU EIR.
5. The conclusion of the GPU EIR relating to Cultural Resources found all impacts to be less than significant with the incorporation of Mitigation Measure CUL-1. Mitigation Measure CUL-1 was incorporated into the GPU as Policy 7F.P40. No additional mitigation measures contained in the GPU EIR apply to impacts to Cultural Resources.

6 Energy

	Project Peculiar Impact that is not Substantially Mitigated by Uniformly Applied Policies	Significant Impact not Analyzed as Significant in the prior EIR	Potentially Significant Off-site or Cumulative Impact not Discussed in the prior EIR	Adverse Impact More Severe based on Substantial New Information	GPU EIR Mitigation Measures apply to this Project Yes	No
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 or energy efficiency?	□	□	□	□	□	■

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The GPU EIR discusses energy usage intermittently in various locations of the document, including pages 2-1 through 2-45 (Project Description), pages 4.2-1 through 4.2-23 (Air Quality), pages 4.8-1 through 4.8-46 (Land Use and Planning), and pages 4.15-1 through 4.15-17 (Greenhouse Gases). As stated in the GPU EIR, the Conservation component of the GPU addresses energy usage in the City, indicating that the City will reduce Pomona's demand for energy by:

- Encouraging or requiring "green building" techniques, which reduce a building's energy use through efficient lighting, heating, and cooling; and
- Promoting compact, clustered, high density patterns of development, which reduces energy demand by reducing vehicle trips/trip length and by more efficiently utilizing energy for lighting, heating, and cooling.

In addition, the City's Energy Action Plan (EAP) overlaps with a number of the other Green Plan topics and is an integral element of the Green Plan. The EAP identifies a comprehensive set of electricity-related energy efficiency targets, goals, policies, and actions to assist the community and City in becoming more energy-efficient and provides policies and actions to assist with their implementation. The City's EAP and the project's consistency with both the Green Plan and EAP are discussed further in Section 8, *Greenhouse Gas Emissions*.

The GPU EIR examined a range of potential impacts associated with energy use, including air quality and GHG emissions generated by energy consumption and consistency with applicable energy-related SCAG RTP/SCS policies, and concluded that there would be no impacts. No energy-related mitigation measures were required or identified.

While no significant energy-related impacts have been identified in relation to adoption and implementation of the GPU, and no mitigation is required, the GPU includes policies that will further reduce the energy usage from individual development projects that take place through 2035. GPU goals and policies that focus on energy efficiency and usage reductions include:

- **Pomona General Plan Policy 7E.P22**, to minimize emissions from residential and commercial uses by incorporating sustainable design solutions, requiring high efficiency heating and appliances, requiring compliance or exceedance of Title 24 for new development, encouraging passive solar building design and landscaping, incorporating drought resistant landscaping, and providing natural gas hookups.
- **Pomona General Plan Policy 7E.P41**, to promote energy efficient development patterns by implementing compact, clustered, transit-oriented City structure.
- **Pomona General Plan Policy 7F.P16**, to prepare and implement "green" building guidelines and/or standards, appropriate to the Pomona context, to ensure high levels of energy efficiency and reduction of environmental impacts associated with construction and operations of buildings.

Project-Specific Impacts

a. Would the project cause result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

The project would use nonrenewable resources for construction and operation of the project. Natural resources that would be utilized by the project include petroleum-based fuels for vehicles and equipment, operational building energy usage, and operational water consumption. The anticipated use of these resources is detailed in the following subsections. As supported by the discussion below, the project would not create energy demand that would result in a significant environmental impact.

Construction Energy Demand

During project construction, energy would be consumed in the form of petroleum-based fuels used to power off-road construction vehicles and equipment on the project site, construction worker travel to and from the project site, and vehicles used to deliver materials to the site. The project would require site preparation and grading, including hauling material off-site; pavement and asphalt installation; building construction; architectural coating; and landscaping and hardscaping.

The total consumption of gasoline and diesel fuel during project construction was estimated using the assumptions and factors from CalEEMod Version 2016.3.2 (Appendix B). As shown in Table 7, construction equipment, hauling and vendor trips, and worker trips would consume approximately 68,393 gallons of fuel over the project construction period. Of this total, construction equipment would consume an estimated 56,671 gallons of fuel; hauling and vendor trips would consume approximately 5,569 gallons of fuel; and worker trips would consume approximately 6,153 gallons of fuel. Appendix D includes energy calculations associated with project construction.

Table 7 Estimated Fuel Consumption during Construction

Fuel Type	Gallons of Fuel	MMBtu[4]
Diesel Fuel (Construction Equipment)[1]	56,671	7,224
Diesel Fuel (Hauling and Vendor Trips)[2]	5,569	710
Other Petroleum Fuel (Worker Trips)[3]	6,153	676
Total	**68,393**	**8,610**

[1] Fuel demand rate for construction equipment is derived from the total hours of operation, the equipment's horse power, the equipment's load factor, and the equipment's fuel usage per horse power per hour of operation, which are all taken from CalEEMod outputs (see Appendix B), and from compression-ignition engine brake-specific fuel consumptions factors for engines between 0 to 100 horsepower and greater than 100 horsepower (USEPA 2018). Fuel consumed for all construction equipment is assumed to be diesel fuel.

[2] Fuel demand rate for hauling and vendor trips (cut material imports) is derived from hauling and vendor trip numbers, hauling and vendor trip lengths, and hauling and vendor vehicle classes from "Trips and VMT" Table contained in Section 3.0, *Construction Detail*, of the CalEEMod results (see Appendix B). The fuel economy for vendor trip vehicles is derived from the United States Department of Transportation (DOT 2018). Fuel consumed for all hauling trucks is assumed to be diesel fuel.

[3] The fuel economy for worker trip vehicles is derived from the U.S. Department of Transportation National Transportation Statistics (24 mpg) (DOT 2018). Fuel consumed for all worker trips is assumed to be gasoline fuel.

[4] CaRFG CA-GREET 2.0 fuel specification of 109,786 Btu/gallon used to identify conversion rate for fuel energy consumption for worker trips specified above (CARB 2015). Low-sulfur Diesel CA-GREET 2.0 fuel specification of 127,464 Btu/gallon used to identify conversion rate for fuel energy consumption for construction equipment specified above (CARB 2015). Due to rounding, numbers may not add up precisely to the totals indicated.

The construction energy estimates represent a conservative estimate because the construction equipment used in each phase of construction was assumed to be operating every day of construction. Construction equipment would be maintained to all applicable standards, and construction activity and associated fuel consumption and energy use would be temporary and typical for construction sites. It is also reasonable to assume contractors would avoid wasteful, inefficient, and unnecessary fuel consumption during construction to reduce construction costs. Therefore, the project would not involve the inefficient, wasteful, and unnecessary use of energy during construction, and the construction-phase impact related to energy consumption would be less than significant.

Operational Energy Demand

Operation of the project would contribute to area energy demand by consuming electricity, natural gas, and gasoline consumption. Natural gas and electricity would be used for heating and cooling systems, lighting, appliances, water use, and the overall operation of the project. Gasoline consumption would be attributed to the trips generated from people living on-site. The estimated number of average daily trips associated with the project is used to determine the energy consumption associated with fuel use from operation of the project. The majority of the fuel consumption would be from motor vehicles traveling to and from the project site. According to CalEEMod calculations (Appendix B), the project would result in approximately 1,063,867 annual VMT. This is based on the most conservative estimate of daily trip generation determined in the Traffic Impact Analysis (TIA) (Appendix G). Table 8 shows the project's estimated total annual fuel consumption using the estimated trip generation and VMT with the assumed vehicle fleet mix. One gallon of gasoline is equivalent to approximately 109,786 Btu, while one gallon of diesel is equivalent to approximately 127,460 Btu (United States Energy Information Administration [EIA] 2018). Appendix D includes energy calculations associated with project operation.

Table 8 Estimated Project Annual Transportation Energy Consumption

Vehicle Type[1]	Percent of Vehicle Trips[2]	Annual Vehicle Miles Traveled[3]	Average Fuel Economy (miles/gallon)[4]	Total Annual Fuel Consumption (gallons)	Total Fuel Consumption (MMBtu)[5]
Passenger Cars	55.00	587,292	24	24,471	2,687
Light/Medium Trucks	35.92	382,128	17.4	21,961	2,411
Heavy Trucks/Other	8.80	93,642	7.4	12,654	1,389
Motorcycles	0.08	805	43.9	18	2
Total	**100**	1,063,867	–	**59,104**	**6,489**

[1] Vehicle classes provided in CalEEMod do not correspond exactly to vehicle classes in DOT fuel consumption data, except for motorcycles. Therefore, it was assumed that passenger cars correspond to the light-duty, short-base vehicle class, light/medium trucks correspond to the light-duty long-base vehicle class, and heavy trucks/other correspond to the single unit, two-axle six-tire or more class.

[2] Percent of vehicle trips from Table 4.4 "Fleet Mix" in Air Quality and Greenhouse Gas Emissions Study, CalEEMod output (Appendix B).

[3] Mitigated annual VMT found in Table 4.2 "Trip Summary Information" in CalEEMod output (Appendix B).

[4] Average Fuel Economy (DOT 2018)

[5] CaRFG fuel specification of 109,786 Btu/gallon used to identify conversion rate for fuel energy consumption for vehicle classes specified above (CARB 2015).

Notes: Totals may not add up due to rounding.

As shown in Table 8, the project would consume approximately 59,104 gallons of fuel, or 6,489 MMBtu, each year for transportation uses from project operation under the most conservative estimate.

Project operation would consume approximately 0.27 gigawatt hours (GWh) of electricity per year (Appendix B). The project's electricity demand would be served by Southern California Edison (SCE), which provided 85,275 GWh of electricity in 2018 (California Energy Commission [CEC] 2018a). The project's electricity demand would represent less than 0.001 percent of electricity provided by SCE. Therefore, SCE would have sufficient supplies for the project. Estimated natural gas consumption for the project would be 0.009 MMthm per year (Appendix B). The project's natural gas demand would be serviced by the Sothern California Gas Company (SoCalGas), which provided 5,156 MMthm per year in 2018 (CEC 2018b). The project's natural gas consumption would represent less than 0.001 percent of natural gas provided by SoCalGas; which would therefore have adequate supply to serve the project.

The project would be required to comply with all standards set in California Building Standards Code (CBC) Title 24, which would minimize the wasteful, inefficient, or unnecessary consumption of energy resources during operation. The Building Energy Efficiency Standards (CBC Title 24, Part 6) requires newly constructed buildings to meet energy performance standards set by the Energy Commission. The California Green Building Standards (CALGreen) Code (CBC Title 24, Part 11) requires implementation of energy efficient light fixtures and building materials into the design of new construction projects. These standards are specifically crafted for new buildings to result in energy efficient performance so that the buildings do not result in wasteful, inefficient, or unnecessary consumption of energy. The standards are updated every three years and each iteration is more energy efficient than the previous standards. Furthermore, the project would continue to reduce its use of nonrenewable energy resources as the electricity generated by

renewable resources provided by SCE continues to increase to comply with state requirements through Senate Bill (SB) 100, which requires electricity providers to increase procurement from eligible renewable energy resources to 33 percent of total retail sales by 2020, 60 percent by 2030, and 100 percent by 2045.

In conclusion, construction of the project would be temporary and typical of similar projects, and would not result in the wasteful, inefficient, or unnecessary consumption of energy. Operation of the project would consume fuel, natural gas, and electricity; however, the project would conform to the latest versions of the Building Energy Efficiency Standards and CALGreen Code, and would therefore not lead to wasteful, inefficient, or unnecessary consumption of energy resources. In addition, SCE and SoCal Gas have sufficient energy supplies to serve the project. Therefore, the project would have a less than significant impact.

b. Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

The project would be designed to comply with the performance levels and residential mandatory measures of the latest version of the Building Energy Efficiency Standards and CALGreen Code (Title 24, Parts 6 and 11), effective January 1, 2020, which would reduce energy consumption compared to standard building practices. Measures to meet these energy standards may include low-flow plumbing fixtures, water-efficient irrigation systems, high-efficiency heating, ventilation, and air conditioning (HVAC) and hot water storage tank equipment, and lighting conservation features. Compliance with these regulations would ensure the proposed project would not conflict with adopted energy conservation plans. Impacts would be less than significant.

Conclusion

Further environmental analysis is not required because:

1. No peculiar impacts that are not substantially mitigated have been identified as a result of the project or its site. Application of the uniformly applied GPU policies substantially mitigates potentially significant impacts to a level of less than significant.
2. There are no potentially significant impacts that were not analyzed as significant in the GPU EIR.
3. There are no potentially significant off-site and/or cumulative impacts that were not discussed by the GPU EIR.
4. No substantial new information has been identified that results in an impact that is more severe than anticipated by the GPU EIR.
5. The conclusion of the GPU EIR relating to air quality and GHG emissions generated by energy consumption and consistency with applicable energy-related SCAG RTP/SCS policies found all impacts to be less than significant. There are no mitigation measures contained in the GPU EIR that apply to impacts to Energy.

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7 Geology and Soils

	Project Peculiar Impact that is not Substantially Mitigated by Uniformly Applied Policies	Significant Impact not Analyzed as Significant in the prior EIR	Potentially Significant Off-site or Cumulative Impact not Discussed in the prior EIR	Adverse Impact More Severe based on Substantial New Information	GPU EIR Mitigation Measures apply to this Project Yes	GPU EIR Mitigation Measures apply to this Project No
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 Division of Mines and Geology Special Publication 42.	□	□	□	□	□	■
ii. Strong seismic ground shaking?	□	□	□	□	□	■
iii. Seismic-related ground failure, including liquefaction?	□	□	□	□	□	■
iv. Landslides?	□	□	□	□	□	■
b. Result in substantial soil erosion or the loss of topsoil?	□	□	□	□	□	■
c. Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and 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), creating substantial risks to life or property?	□	□	□	□	□	■
e. Have soils incapable of adequately supporting the	□	□	□	□	□	■

	Project Peculiar Impact that is not Substantially Mitigated by Uniformly Applied Policies	Significant Impact not Analyzed as Significant in the prior EIR	Potentially Significant Off-site or Cumulative Impact not Discussed in the prior EIR	Adverse Impact More Severe based on Substantial New Information	GPU EIR Mitigation Measures apply to this Project Yes	No
use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?						
f. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	□	□	□	□	□	■

City of Pomona General Plan Update, Corridors Specific Plan, Active Transportation Plan, and Green Plan EIR Summary

The GPU EIR discusses impacts related to geology and soils on pages 4.5-1 through 4.5-19. The basic geologic setting of the project area has not changed since certification of the GPU EIR. The GPU EIR found that all impacts related to geology and soils would be less than significant with required implementation of existing regulations, policies, and standard practices, including the following:

- Current California Building Code (CBC), Uniform Building Code (UBC), and the City's General Plan and Corridors Specific Plan (CSP) Development Code requirements and guidelines for buildings constructed in areas of high seismic risk.
- **Pomona General Plan Policy 7E.P24**, to encourage rainwater and wastewater Best Management Practices (BMPs) in private and public construction in new development and renovations to minimize rainwater runoff, and maximize rainwater and greywater collection and reuse.
- **Pomona General Plan Goal 7G.G10**, to avoid exposure to hazards and reduce the potential for damage to future development.
- **Pomona General Plan Policy 7G.P26**, to limit development in areas with high seismic risks and landscape hazards.
- **Pomona General Plan Policy 7G.P36**, to require new development to be located above or below areas of potential landslide to include risk mitigation measures, such as barriers to moving earth or strategic placement of parking lots to lessen risk of injury or death from landslides.
- All work requiring a grading permit would be required to have an Erosion Control Plan approved by the City.

According to the GPU EIR, no mitigation measures were necessary, as the policies included in the proposed GPU fully mitigate potential impacts associated with implementation of the GPU and any infill development and urban expansion projects as a result.

Project-Specific Impacts

a. Would the project 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?

ii. Strong seismic ground shaking?

iii. Seismic-related ground failure, including liquefaction?

iv. Landslides?

c Would the project 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?

As stated in the GPU EIR, Pomona is not within an Alquist Priolo fault zone and is therefore not an area where structures are at significant risk from fault rupture. The San Jose Fault is located approximately 0.25 mile north of the project site, and runs in a northeast-southwest direction, approximately parallel to I-10. Of the faults local to the City of Pomona, the probability of earthquake activity is considered highest along the San Jose Fault; however, none of the local faults, including the San Jose Fault, have been placed in an Alquist Priolo fault zone. Therefore, no fault rupture hazard is anticipated along the fault lines that pass through the city (City of Pomona 2013).

The project site and vicinity are relatively flat, with project site elevation ranging between 857 to 862 feet above mean sea level (LOR Geotechnical Group, Inc. 2019). The project site and vicinity are developed with no visible risks or extreme topography that may be subject to landslides. The project site and vicinity are also outside of potential liquefaction zones (CalOES 2015). Therefore, the project would have no impact on landslides or liquefaction risks.

Proposed structures would be constructed to comply with the seismic design criteria of the California Building Code (CBC). Although structures may be damaged during earthquakes, adherence to the seismic design requirements would minimize property and structural damage. The CBC is intended to provide minimum requirements to prevent major structural failure and loss of life in seismic events. Therefore, the project would have a less than significant impact from seismic hazards.

b. Would the project result in substantial soil erosion or the loss of topsoil?

As stated in the GPU EIR, the local topography of Pomona is generally flat with gentle slopes to the southwest. The potential for soil erosion throughout the City is low (City of Pomona 2013). All demolition and construction activities in the City are required to comply with CBC Chapter 70 standards, which ensure implementation of appropriate measures during grading activities to reduce soil erosion (City of Pomona 2013). All new developments are subject to regional and local regulations pertaining to construction activities. Development greater than one acre in size is required to comply with the provisions of the General Construction Activity Stormwater Permit adopted by the State Water Resources Control Board (SWRCB), which would require the employment of best management practices (BMPs) to limit the extent of eroded materials from a construction site. In order to implement the project, a grading permit and Erosion Control Plan would be required. Compliance with CBC Chapter 70 standards and City requirements for a grading

permit would reduce soil erosion impacts to a less than significant level. Therefore, the project would have a less than significant impact.

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

As stated in the GPU EIR, soils in Pomona are predominantly alluvium in the valley area and bedrock on the San Jose and Puente/Chino Hills (City of Pomona 2013). The project site does not contain expansive soil. The project site and vicinity have been developed, and existing project site soil is presumed to be compacted, engineered fill, which is typical practice for development within the city. Therefore, the project would have no impact related to expansive soils.

e. Would the project have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?

As discussed in the GPU EIR and in Section 19, *Utilities and Service Systems*, of this Exemption Checklist, Pomona and the project site are served by a sanitary sewer system provided by the City's Public Works Department (City of Pomona 2013). The project would connect to existing systems and would not require the use of septic tanks. Therefore, the project would have no impact.

f. Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

As discussed in the GPU EIR, paleontological resources may be present in fossil-bearing rock formations below the ground surface. Ground-disturbing activities in fossil-bearing soils and rock formations have the potential to damage or destroy paleontological resources that may be present below the ground surface. The GPU EIR notes that several policies in the GPU are in place to protect paleontological resources (Pomona General Plan Policies 7F.P40, 7F.P41, 7F.P42, and 7F.P43 as stated in Section 5, *Cultural Resources*). The GPU EIR states that adherence to GPU policies would ensure impacts to paleontological resources would be less than significant. Furthermore, the project would comply with the City's standard conditions pertaining to paleontological resources should such resources, previously unknown, be encountered during ground disturbing construction activities. The City's standard conditions include procedures to halt work until found resources are appropriately handled, assessed, and/or recorded by qualified personnel to prevent damage to found resources. Therefore, the project would have a less than significant impact.

Conclusion

Further environmental analysis is not required because:

1. No peculiar impacts to geology and soils that are not substantially mitigated have been identified as a result of the project or its site. Application of the uniformly applied GPU policies substantially mitigates potentially significant impacts to a level of less than significant.
2. There are no potentially significant impacts to geology and soils that were not analyzed as significant in the GPU EIR.
3. There are no potentially significant off-site and/or cumulative impacts that were not discussed by the GPU EIR.
4. No substantial new information has been identified that results in a geology and soils impact that is more severe than anticipated by the GPU EIR.

5. The conclusion of the GPU EIR relating to Geology and Soils found all impacts to be less than significant. There are no Mitigation Measures contained in the GPU EIR that apply to impacts to Geology and Soils.

   Specific to paleontological resources, the conclusion of the GPU EIR relating to Cultural Resources found all impacts to be less than significant with the incorporation of Mitigation Measure CUL-1. Mitigation Measure CUL-1 was incorporated into the GPU as Policy 7F.P40. No additional mitigation measures contained in the GPU EIR apply to impacts to Cultural Resources specific to paleontological resources.

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8 Greenhouse Gas Emissions

	Project Peculiar Impact that is not Substantially Mitigated by Uniformly Applied Policies	Significant Impact not Analyzed as Significant in the prior EIR	Potentially Significant Off-site or Cumulative Impact not Discussed in the prior EIR	Adverse Impact More Severe based on Substantial New Information	GPU EIR Mitigation Measures apply to this Project Yes	GPU EIR Mitigation Measures apply to this Project No
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?	□	□	□	□	□	■

City of Pomona General Plan Update, Corridors Specific Plan, Active Transportation Plan, and Green Plan EIR Summary

The GPU EIR discusses GHG emissions on pages 4.15-1 through 4.15-17. The GPU EIR states that implementation of the GPU would generate new GHG emissions, directly and indirectly. However, GPU policies would help the City achieve the goals of SCAG's 2012-2035 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS), which would contribute to the achievement of SCAG's goal for per capita GHG emissions reductions required by SB 375. Therefore, the GPU EIR concluded that there would be no GPU-related impacts to GHG emissions, and no mitigation measures were required or identified.

While no significant GHG-related impacts have been identified in relation to adoption and implementation of the GPU, and no mitigation is required, the GPU includes policies that will further reduce the GHG emissions from individual development projects that take place through 2035. GPU goals and policies that focus on GHG emissions reductions include:

- **Pomona General Plan Goal 7B.G12 and Policy 7B.P5**, to promote housing of various types in diverse settings that serve the needs of Pomona's core household population while also attracting compact, one- and two-person households.
- **Pomona General Plan Policy 7E.P41**, to promote energy efficient development patterns by implementing compact, clustered, transit-oriented City structure.

Moreover, though no mitigation measures for GHG emissions are included in the GPU EIR, mitigation may include the identification of specific measures that may be implemented on a project-by-project basis. Such project-specific mitigation measures may include the incorporation of specific measures or policies found in the City's Green Plan or ordinance. However, GHG impacts of the GPU would be less than significant without mitigation.

The GHG discussion herein is based on a project-specific air quality and GHG study that was prepared by Rincon Consultants, Inc. (Appendix B). The air quality and GHG study provides an overview of GHG, briefly summarized below.

Greenhouse Gas Overview

Gases that absorb and re-emit infrared radiation in the atmosphere are called GHGs. The gases that are widely seen as the principal contributors to human-induced climate change include carbon dioxide (CO_2), methane (CH_4), nitrous oxides (N_2O), fluorinated gases such as hydrofluorocarbons (HFCs) and perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6). Water vapor is excluded from the list of GHGs because it is short-lived in the atmosphere, and its atmospheric concentrations are largely determined by natural processes, such as oceanic evaporation.

Different types of GHGs have varying global warming potentials (GWPs). The GWP of a GHG is the potential of a gas or aerosol to trap heat in the atmosphere over a specified timescale (generally, 100 years). Because GHGs absorb different amounts of heat, a common reference gas (CO_2) is used to relate the amount of heat absorbed to the amount of the gas emissions, referred to as "carbon dioxide equivalent" (CO_2e), and is the amount of a GHG emitted multiplied by its GWP. Carbon dioxide has a 100-year GWP of one. By contrast, CH_4 has a GWP of 28, meaning its global warming effect is 25 times greater than carbon dioxide on a molecule per molecule basis. N_2O has a global warming potential of 265 (Appendix B).

Greenhouse Gas Emissions Inventory

California

Based on CARB's California Greenhouse Gas Inventory for 2000-2017, California produced 424 MMT CO_2e in 2017. The largest source of GHGs in California is transportation, which generates 41 percent of the state's total GHG emissions. The industrial sector is the second largest source, contributing 24 percent of the state's GHG emissions, and electric power accounted for approximately 15 percent. California emissions are due in part to its large size and large population compared to other states. However, a factor that reduces California's per capita fuel use and GHG emissions, as compared to other states, is its relatively mild climate. In 2016, the State of California achieved its 2020 GHG emission reduction target as emissions fell below 431 MMT CO_2e. The annual 2030 statewide target emissions level is 260 MMT CO_2e (Appendix B).

Local

Adopted in November of 2012, the City of Pomona's Green Plan (2012a) sets a 2020 target to achieve a 15 percent reduction below community wide GHG emissions and identifies actions to achieve the target. The City's Green Plan contains GHG-reduction policies for transportation, land use, energy use, water management, and waste reduction and recycling.

Appended to the City's Green Plan is the Energy Action Plan (EAP), which includes a GHG emissions inventory, reduction targets through 2020, community-wide and municipal energy efficiency strategies, and implementation policies (City of Pomona 2012b). In 2007, GHG emissions for community-wide activities were estimated at 987,170 MT CO_2e, while GHG emissions for municipal operations were estimated at approximately 14,300 MT CO_2e. The majority of community-wide activities emissions were associated with on-road transportation (53 percent) and commercial/industrial energy (24 percent), while the majority of municipal operations emissions were associated with water use and supply and the City-owned vehicle fleet (City of Pomona 2012b).

Significant Threshold

CEQA Guidelines Section 15064.4(b) states that a lead agency should consider the following factors, among others, when assessing the significance of impacts from GHG emissions on the environment:

- The extent to which the project may increase or reduce GHG emissions as compared to the existing environmental setting;
- Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project; and
- The extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions. Such requirements must be adopted by the relevant public agency through a public review process and must reduce or mitigate the project's incremental contribution of GHG emissions.

Individual projects do not generate enough GHG emissions to substantially influence climate change. However, physical changes caused by a project can contribute incrementally to cumulative effects that may be significant, even if individual changes resulting from a project are limited. The issue of climate change typically involves an analysis of whether a project's contribution towards an impact would be cumulatively considerable. "Cumulatively considerable" means that the incremental effects of an individual project are significant when viewed in connection with the effects of past projects, other current projects, and probable future projects (CEQA Guidelines, Section 15064[h][1]).

To determine a project-specific threshold, guidance on GHG significance thresholds in the region from SCAQMD, the air district in which the project site is located, was used. The SCAQMD's GHG CEQA Significance Threshold Working Group considered a tiered approach to determine the significance of residential and commercial projects. The draft tiered approach is outlined in meeting minutes dated September 29, 2010 (SCAQMD 2010):

- **Tier 1.** If the project is exempt from further environmental analysis under existing statutory or categorical exemptions, there is a presumption of less than significant impacts with respect to climate change. If not, then the Tier 2 threshold should be considered.
- **Tier 2.** Consists of determining whether the project is consistent with a GHG reduction plan that may be part of a local general plan, for example. The concept embodied in this tier is equivalent to the existing concept of consistency in CEQA Guidelines Section 15064(h)(3), 15125(d) or 15152(a). Under this Tier, if the proposed project is consistent with the qualifying local GHG reduction plan, it is not significant for GHG emissions. If there is not an adopted plan, then a Tier 3 approach would be appropriate.
- **Tier 3.** Establishes a screening significance threshold level to determine significance. The Working Group has provided a recommendation of 3,000 MT CO_2e per year for non-industrial projects.
- **Tier 4.** Establishes a service population threshold to determine significance. The Working Group has provided a recommendation of 4.8 MT CO_2e per year for land use projects.

Tier 1 would not apply to the project as it is not exempt from environmental analysis. For Tier 2, while the City has not adopted a qualified GHG reduction plan at the time of this analysis. Therefore, for a project-specific threshold, the City of Pomona has selected SCAQMD's 3,000 MT CO_2e per year threshold for non-industrial projects as the applicable project-specific threshold, in accordance with Tier 3. The SCAQMD's 3,000 MT CO_2e per year threshold was determined based upon a 90 percent capture rate of GHG emissions (i.e., 90 percent of emissions would occur for projects that exceed the 3,000 MT CO_2e per year threshold, and therefore mitigation is focused upon those projects). In addition, the threshold is frequently used by jurisdictions across southern California to determine GHG emissions impacts from commercial projects.

Project-Specific Impacts

a. Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Construction Emissions

Construction activities would contribute GHG emissions primarily from the combustion of fossil-fuel based fuels by construction equipment. It was assumed that construction would occur over approximately 12 months in three phases, with construction anticipated to begin in March 2021 and completed by March 2022, with first occupancy anticipated for April 2022. As shown in Table 9, construction activity for the project would generate an estimated 621 MT CO_2e. When amortized over a 30-year period (the assumed life of the project), construction of the project would generate approximately 21 MT CO_2e per year.

Table 9 Estimated Construction Emissions of Greenhouse Gases

Construction Year	Annual Emissions (MT CO_2e)
2021	541
2022	80
Total Construction Emissions	621
Amortized over 30 years	21

Note: Emissions modeling was completed using CalEEMod. See Appendix B for modeling results.

Operational Emissions

Operational GHG emissions would be emitted due to area sources (household consumer products, landscape maintenance equipment, and painting), energy use (electricity and natural gas), solid waste disposal, water use, and transportation associated with the project.

Table 10 combines the construction and operational GHG emissions associated with development of the project. As shown, annual emissions from the proposed project would be approximately 520 MT CO_2e. These emissions would not exceed the SCAQMD's 3,000 MT CO_2e per year threshold. Therefore, the project's GHG emissions would have a less than significant impact.

Table 10 Combined Annual Emissions of Greenhouse Gases

Emission Source	Annual Emissions (MT CO_2e)
Construction	21
Operational	
Area	7
Energy	86
Mobile[1]	76
Solid Waste	19
Water	11
Net Total	**520**
SCAQMD Threshold	3,000
Exceeds Threshold?	**No**

[1] Emissions modeling was completed using CalEEMod, except for N_2O mobile emissions. N_2O mobile emissions completed consistent with the description in Methodology. See Appendix B for modeling results.

b. Would the project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

There are numerous State plans, policies, and regulations adopted for the purpose of reducing GHG emissions. The principal State plan and policy is AB 32, the California Global Warming Solutions Act of 2006, and the follow up, SB 32. The quantitative goal of AB 32 is to reduce GHG emissions to 1990 levels by 2020 and the goal of SB 32 is to reduce GHG emissions to 40 percent below 1990 levels by 2030. Statewide plans and regulations such as GHG emissions standards for vehicles (AB 1493), the Low Carbon Fuel Standard, and regulations requiring an increasing fraction of electricity to be generated from renewable sources are being implemented at the statewide level; as such, compliance at a project level is not addressed. Therefore, the project does not conflict with statewide plans and regulations.

Senate Bill 375, signed in August 2008, directs each of the State's 18 major Metropolitan Planning Organizations to prepare a SCS that contains a growth strategy to meet these emission targets for inclusion in the RTP. SCAG's RTP/SCS includes a commitment to reduce emissions from transportation sources by promoting compact and infill development to comply with SB 375. The GPU EIR includes a consistency analysis table for GPU policies and SCAG's 2012 RTP/SCS. The GPU EIR concludes that the GPU would be consistent with all the strategies identified to reduce GHG emissions in the 2012-2035 RTP/SCS, and that the GPU policies would help maintain or reduce per capita emissions in Pomona. Although the SCAG has been updated in 2016 since 2012, the proposed residential project would not conflict with any of the SCAG's 2016 RTP/SCS goals, as outlined in Table 11.

Table 11 Consistency with Applicable SCAG RTP/SCS GHG Emission Reduction Strategies

Strategy/Action	Project Consistency
Focus Growth Near Destinations & Mobility Options. ▪ Emphasize land use patterns that facilitate multimodal access to work, educational and other destinations ▪ Focus on a regional jobs/housing balance to reduce commute times and distances and expand job opportunities near transit and along center-focused main streets ▪ Plan for growth near transit investments and support implementation of first/last mile strategies. ▪ Promote the redevelopment of underperforming retail developments and other outmoded nonresidential uses ▪ Prioritize infill and redevelopment of underutilized land to accommodate new growth, increase amenities and connectivity in existing neighborhoods ▪ Encourage design and transportation options that reduce the reliance on and number of solo car trips (this could include mixed uses or locating and orienting close to existing destinations) Identify ways to "right size" parking requirements and promote alternative parking strategies (e.g. shared parking or smart parking)	**Consistent.** The project would involve the demolition of an existing church and construction of single-family residential units, open area, and associated road and parking that would include a net increase of 33 residents. The proposed project would be within walking and biking distance of existing residential, commercial, and recreational uses In addition, the project is located adjacent to West Orange Grove Avenue which is serviced by Foothill Transit Bus Line 197 and the nearest bus stop located approximately 575 feet southwest of the site. These features would incentivize the use of public transit, active transportation, and fuel-efficient vehicles for traveling to and from the site. Therefore, the proposed project would focus growth near destinations and mobility options.
Promote Diverse Housing Choices. ▪ Preserve and rehabilitate affordable housing and prevent displacement ▪ Identify funding opportunities for new workforce and affordable housing development ▪ Create incentives and reduce regulatory barriers for building context-sensitive accessory dwelling units to increase housing supply Provide support to local jurisdictions to streamline and lessen barriers to housing development that supports reduction of greenhouse gas emissions	**Consistent.** The project would involve demolition of a church and construction of 33 single-family units, which would increase housing supply from the existing housing conditions.
Leverage Technology Innovations. ▪ Promote low emission technologies such as neighborhood electric vehicles, shared rides hailing, car sharing, bike sharing and scooters by providing supportive and safe infrastructure such as dedicated lanes, charging and parking/drop-off space ▪ Improve access to services through technology—such as telework and telemedicine as well as other incentives such as a "mobility wallet," an app-based system for storing transit and other multi-modal payments Identify ways to incorporate "micro-power grids" in communities, for example solar energy, hydrogen fuel cell power storage and power generation	**Consistent.** The project would incorporate all applicable measures of the 2020 CALGreen Building Standards, which are comparable (and more stringent in certain categories) than LEED standards. All residential units would be equipped with solar PV systems, high efficiency insulation, high efficiency water heaters, energy efficient LED lighting fixtures, high-efficiency temperature control systems, MERV-13 air filters, and water-efficient appliances and fixtures. Proposed buildings would be equipped for electricity and natural gas use.

Strategy/Action	Project Consistency
Support Implementation of Sustainability Policies. ▪ Pursue funding opportunities to support local sustainable development implementation projects that reduce GHG emissions ▪ Support statewide legislation that reduces barriers to new construction and that incentivizes development near transit corridors and stations ▪ Support local jurisdictions in the establishment of Enhanced Infrastructure Financing Districts (EIFDs), Community Revitalization and Investment Authorities (CRIAs), or other tax increment or value capture tools to finance sustainable infrastructure and development projects, including parks and open space ▪ Work with local jurisdictions/communities to identify opportunities and assess barriers to implement sustainability strategies ▪ Enhance partnerships with other planning organizations to promote resources and best practices in the SCAG region ▪ Continue to support long range planning efforts by local jurisdictions Provide educational opportunities to local decision makers and staff on new tools, best practices and policies related to implementing the Sustainable Communities Strategy	**Consistent.** The project would be designed and operated to meet the applicable requirements of CALGreen and the City's Green Plan. The project's indoor water use would be minimized by 20 percent. Furthermore, energy use would be reduced by 30 to account for requirements of 2019 Title 24 standards. Additionally, the project would incorporate landscape drip irrigation and smart irrigation controllers for both common and private areas. Therefore, the project would support implementation of sustainability policies
Promote a Green Region. ▪ Support development of local climate adaptation and hazard mitigation plans, as well as project implementation that improves community resiliency to climate change and natural hazards ▪ Support local policies for renewable energy production, reduction of urban heat islands and carbon sequestration ▪ Integrate local food production into the regional landscape ▪ Promote more resource efficient development focused on conservation, recycling and reclamation ▪ Preserve, enhance and restore regional wildlife connectivity ▪ Reduce consumption of resource areas, including agricultural land Identify ways to improve access to public park space	**Consistent**. The project would involve the demolition of an existing church and construction of 33 single family residential units, an open area, and associated parking and would therefore not interfere with regional wildlife connectivity or convert agricultural land. The project would comply with Pomona's Green Plan, Title 24, and CALGreen. Therefore, the project would support development of a green region.

Source: SCAG 2020

The City's General Plan, Green Plan, and EAP also contain a number of policies that would reduce citywide levels of GHG emissions under 2035 buildout. Table 12 illustrates the project's consistency with relevant goals and policies of the City's General Plan, Green Plan, and EAP.

Table 12 Project Consistency with Applicable General Plan and Green Plan Implementation Strategies

Goals, Policies, and Actions	Project Consistency
City of Pomona General Plan	
6E.P1. Permit a range of multi-family residential and residentially compatible development types in clusters at major crossroads throughout the City as identified in Figure 6.3 *Pomona Tomorrow* and Figure 7-A.8 *Transect Tomorrow*.	**Consistent.** The project entails demolition of an existing church and construction of 33 dwelling units that would consist of 33 detached single-family homes. The project site is surrounded by existing residential, commercial, and recreational uses. Implementation of the project would intensify the project site with residential uses that would be compatible with existing uses in the project area. Therefore, the project would be consistent with Policy 6E.P1.
7E.P22. Minimize emissions from residential and commercial uses through the following: ▪ Encourage new development to incorporate sustainability design solutions such as those outlines in the LEED rating systems ▪ Require high efficiency heating and other appliance, such as cooking equipment, refrigerators, furnaces and low NO_x water heaters in new and renovated residential units ▪ Require new residential and commercial buildings to comply with or exceed requirements of CCR Title 24 ▪ Encourage passive solar building design and landscaping conducive to passive solar energy use for both residential and commercial uses,(e.g., building orientation in a south to southeast direction, planting deciduous trees on west sides of structures, landscaping with drought resistant species, and use of groundcover rather than pavement to reduce heat reflection) ▪ Encourage the use of battery-powered, electric, or other similar equipment that does not impact local air quality for non-residential maintenance activities ▪ Provide natural gas hookups to fireplaces or require residential use of EPA-certified wood stoves, pellet stoves, or fireplace inserts	**Consistent.** The project would incorporate all applicable measures of the 2020 CALGreen Building Standards, which are comparable (and more stringent in certain categories) than LEED standards. All residential units would be equipped with solar PV systems, high efficiency insulation, high efficiency water heaters, energy efficient LED lighting fixtures, high-efficiency temperature control systems, MERV-13 air filters, and water-efficient appliances and fixtures. All residential units would be equipped with high-efficiency temperature control systems, and water-efficient appliances and fixtures. Proposed buildings would be equipped for electricity and natural gas use. Therefore, the project would be consistent with Policy 7E.P22.
7E.P24. For both private and public construction in new development and renovations, encourage rainwater and wastewater Best Management Practices (BMPs) to minimize rainwater runoff, and maximize rainwater and greywater collection and reuse.	**Consistent.** The project would include smart irrigation system for all proposed landscaped areas, and a drip irrigation system would be used for both common and private areas. Therefore, the project would be consistent with Policy 7E.P24.
7E.P25. Encourage the use of water efficient appliances and fixtures in new development and upgrades in existing development.	**Consistent.** The project would include water-efficient appliances and fixtures in every residential unit in accordance with the 2019 Title 24 standards. Sustainable design features specifically proposed by the project applicant include water efficient irrigation system and low flow plumbing fixtures to reduce operational water consumption.

Goals, Policies, and Actions	Project Consistency
7E.P26. Encourage low water use irrigation such as drip irrigation and rainwater capture systems.	**Consistent.** The project would include smart irrigation system for all proposed landscaped areas, and a drip irrigation system would be used for both common and private areas. Therefore, the project would be consistent with Policy 7E.P26.
7E.P27. Encourage the use of drought tolerant plant species (especially native plants), and low water use irrigation such as drip irrigation and rainwater capture systems.	**Consistent.** The project would include smart irrigation system for all proposed landscaped areas, and a drip irrigation system would be used for both common and private areas. Therefore, the project would be consistent with Policy 7E.P27.
7E.P41. Promote energy efficient patterns of development by implementing the vision of compact, clustered, transit-oriented City structure outlined in Section 6 of Pomona Tomorrow (General Plan).	**Consistent.** The project entails demolition of an existing church and construction of 33 dwelling units that would consist of 33 detached single-family homes. The project site is surrounded by existing residential, commercial, and recreational uses. Implementation of the project would intensify the project site with residential uses that would be compatible with existing uses in the project area. Therefore, the project would be consistent with Policy 7E.P41.
City of Pomona Green Plan	
1.2.2. Promote infill development to maximize land use efficiencies and the optimum utilization of the limited vacant land remaining in the City.	**Consistent.** The project site is located within a highly urbanized area. Implementation of the project would intensify uses at the site. Therefore, the project would be consistent with Policy 1.2.2.
1.2.3. Promote higher densities and a mix of uses in the downtown, transit centers, and activity centers and along transportation corridors.	**Consistent.** The project site is located along West Orange Grove Avenue which is identified as a crucial transportation corridor for the Hacienda Park Historic District and Wilton Heights Historic District. Implementation of the project would entail development with intensified residential uses for the site, which would complement existing residential, commercial and recreational uses in the vicinity. Therefore, the project would be consistent with Policy 1.2.3.
1.2.5. Encourage new housing and mixed-use developments be built to LEED standards for neighborhood development (LEED ND) or its equivalent.	**Consistent.** The project incorporates design elements and materials to comply with applicable measures in the 2020 CALGreen Building Standards, which is comparable (and more stringent in certain categories) than LEED standards. The project applicant is not seeking LEED certification for the project; however, projects that are compliant with 2020 CALGreen Building Standards are pre-approved for streamlining of fundamental LEED requirements. Therefore, the project would be consistent with Policy 1.2.5.
1.4.2. Require new developments to provide in-lieu fees or dedicated lands.	**Consistent.** The project would be required to contribute fair-share in-lieu fees for open spaces or development of parks and recreational resources. Therefore, the project would be consistent with Policy 1.4.2.

Goals, Policies, and Actions	Project Consistency
6.5.1. Promote low-impact development in the community. ▪ Through incentives, encourage the use of native plants (or adaptable species) to establish an adaptable and low-maintenance landscape that requires less irrigation and is appropriate for the climatic conditions. ▪ Through incentives, encourage low-water-use irrigation such as drip irrigation and rainwater capture systems.	**Consistent.** The project would include smart irrigation system for all proposed landscaped areas, and a drip irrigation system would be used for both common and private areas. Therefore, the project would be consistent with Policy 6.5.1.
City of Pomona Energy Action Plan	
Policy 3.3. Encourage the use of energy-efficient appliances and equipment in new buildings.	**Consistent.** The project would include water-efficient appliances in every residential unit in accordance with the 2019 Title 24 standards.
Policy 5.2. Promote the use of energy and water efficient fixtures for indoor use.	**Consistent.** The project would include smart irrigation system for all proposed landscaped areas, and a drip irrigation system would be used for both common and private areas. The project would incorporate all applicable measures of the 2020 CALGreen Building Standards, which are comparable (and more stringent in certain categories) than LEED standards). All residential units would be equipped with high-efficiency temperature control systems, and water-efficient appliances and fixtures.

Source: City of Pomona 2012a; 2012b; 2014

The project would be constructed in accordance with the 2020 CALGreen Building Standards, which require energy efficiency, water efficiency, and material conservation and resource efficiency. The project would be consistent with applicable General Plan land use and zoning designations, would not conflict with any State regulations intended to reduce statewide GHG emissions, and would be consistent with applicable regional and local plans and programs designed to reduce GHG emissions. The project would not conflict with any plan, policy, or legislation related to GHG emissions. Therefore, the project would have a less than significant impact.

Conclusion

Further environmental analysis is not required because:

1. No peculiar impacts that are not substantially mitigated have been identified as a result of the project or its site. Application of the uniformly applied GPU policies substantially mitigates potentially significant impacts to a level of less than significant.
2. There are no potentially significant impacts that were not analyzed as significant in the GPU EIR.
3. There are no potentially significant off-site and/or cumulative impacts that were not discussed by the GPU EIR.
4. No substantial new information has been identified that results in an impact that is more severe than anticipated by the GPU EIR.

5. The conclusion of the GPU EIR relating to GHG emissions found all impacts to be less than significant. There are no mitigation measures contained in the GPU EIR that apply to impacts to GHG emissions.

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9 Hazards and Hazardous Materials

	Project Peculiar Impact that is not Substantially Mitigated by Uniformly Applied Policies	Significant Impact not Analyzed as Significant in the prior EIR	Potentially Significant Off-site or Cumulative Impact not Discussed in the prior EIR	Adverse Impact More Severe based on Substantial New Information	GPU EIR Mitigation Measures apply to this Project Yes	No
Would the project:						
a. Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	□	□	□	□	□	■
b. Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	□	□	□	□	□	■
c. Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	□	□	□	□	□	■
d. Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	□	□	□	□	□	■
e. For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?	□	□	□	□	□	■

	Project Peculiar Impact that is not Substantially Mitigated by Uniformly Applied Policies	Significant Impact not Analyzed as Significant in the prior EIR	Potentially Significant Off-site or Cumulative Impact not Discussed in the prior EIR	Adverse Impact More Severe based on Substantial New Information	GPU EIR Mitigation Measures apply to this Project Yes	No
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?	□	□	□	□	□	■

City of Pomona General Plan Update, Corridors Specific Plan, Active Transportation Plan, and Green Plan EIR Summary

The GPU EIR discusses hazards and hazardous materials impacts on pages 4.6-1 through 4.6-32. It addresses the following issues, discussed below: potential hazardous materials and emergency response and evacuation.

Potential Hazardous Materials

The GPU EIR identifies construction materials, and use of materials for periodic cleaning, repair, and maintenance or for landscape maintenance/pest control as potential sources of exposure to hazardous materials. However, it concludes that although the overall quantity of hazardous materials and waste generated in the city could increase as result of implementation of the GPU, all new developments that handle or use hazardous materials would be required to comply with regulations, standards, and guidelines established by the USEPA, State, Los Angeles County, and the City of Pomona, including:

- **General Plan Policy 7G.P38**, which requires site remediation, cleanup, and risk evaluation prior to reuse in identified areas where hazardous materials and petroleum products have impacts soil or groundwater.
- **General Plan Policy 7G.P41**, which pertains to public awareness and participation in household hazardous waste management, hazardous materials impacts would be less than significant.
- **General Plan Policy 7G.P44**, which requires project applicants to prepare a Health Risk Assessment as part of the environmental review process to determine actual risks posed to schools from proposed development for any proposed development of industrial or commercial uses of more than 100,000 square feet in size within 0.25 mile of an existing or proposed school, would ensure hazardous impacts to schools to be less than significant.

According to the GPU EIR, a 2012 database search conducted through California Environmental Protection Agency's (CalEPA) "Cortese List Data Resources" found over 190 sites in the city either containing or potentially containing hazardous materials contamination (City of Pomona 2013). These sites include leaking underground storage tanks and other hazardous materials sites listed by the California Department of Toxic Substances Control (DTSC) in various stages of cleanup, active

remediation, and monitoring, or closed cases. The USEPA lists seven locations in Pomona under the Superfund Amendments and Reauthorization Act, Title III, but these are not on the National Priority List. The Toxics Release Inventory, also managed by the USEPA, lists 30 facilities in Pomona, most of which are clustered in industrial areas along rail corridors in the western, southeastern, and northern areas of the city. The GPU EIR concludes that any development on these sites would require remediation of the site contamination, and impacts associated with development on these sites would be considered less than significant after remediation and with adherence to the GPU Policies.

Similarly, the GPU EIR concludes that, although there are schools in GPU areas that could be within 0.25 mile of facilities with the potential to release hazardous materials, compliance with existing regulations and standard safety procedures related to the handling of hazardous materials at these facilities would be expected to reduce potential impacts to a less than significant level.

Emergency Response and Evacuation

The GPU EIR found that additional population growth from GPU implementation could result in increased traffic congestion, which in turn may impede the rate of evacuation for residents and affect response times for emergency medical or containment services. The Pomona Police Department's Office of Emergency Services manages the City's Emergency and Disaster Preparedness plan, which consists of the Standardized Emergency Management System (SEMS) Multihazard Functional Plan (MHFP) that outlines response approaches to natural disasters, technological incidents, and national security emergencies. The City's Natural Hazards Mitigation Plan works in conjunction with other city plans and documents, such as the General Plan and the MHFP. The GPU EIR concludes implementation of the following policies associated with emergency response and evacuation in the city would result in less than significant impacts on emergency response and evacuation.

- **Pomona General Plan Policy 7G.50** requires that the City maintain its SEMS and implement the National Incident Management System into the City's disaster response plan, in addition to working with the County of Los Angeles to update joint-emergency and disaster response plans, as needed.
- **Pomona General Plan Policy 7G.P51** requires the City to develop an evacuation route plan and incorporate it into the SEMS.

According to the GPU EIR, Mitigation Measure HAZ-1 would apply to the GPU areas to ensure hazardous impacts are less than significant. All components of Mitigation Measure HAZ-1 were incorporated into the GPU as the following additional policies:

- **Pomona General Plan Policy 6C.P10**, for the City to maintain consistency with the Los Angeles County Airport Land Use Compatibility Plan [once adopted] as it pertains to Brackett Field.
- **Pomona General Plan Policy 7G.P54**, for the City to coordinate disaster preparedness and emergency response with appropriate agencies, including the Pomona Police Department, Los Angeles County Fire Department, Los Angeles County Airport Land Use Commission, Brackett Field operators and emergency response providers, and neighboring cities.
- **Pomona General Plan Policy 7G.P55**, to ensure that land uses, densities, and building heights in Airport Land Use Compatibility Zones are compatible with safe operation of Brackett Field.
- **Pomona General Plan Policy 7G.P56**, to review and update City procedures for responding to airport and aircraft related emergencies.

The GPU EIR concluded that impacts associated with hazards and hazardous materials would be less than significant following implementation of General Plan goals and policies stated above, and implementation of the additional policies from Mitigation Measure HAZ-1.

Project-Specific Impacts

a. Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

b. Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

c. Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

As stated in the GPU EIR, the overall quantity of hazardous materials and waste generated in the city is anticipated to increase because of infill development and urban expansion from implementation of the GPU. New developments that handle or use hazardous materials would be required to comply with regulations, standards, and guidelines established by the USEPA, the State, Los Angeles County, and the City.

The project entails infill development of 33 dwelling units that would consist of detached single-family homes. Construction would involve demolition of the existing church building and associated buildings. A Phase II Environmental Site Assessment (Phase II ESA) was completed for the project site, based on past agricultural usage of the project site between 1928 through the late 1940s and the presence of lead-based paint on exterior church building surfaces by LOR Geotechnical Group, Inc. in 2019; the report is included as Appendix E. The Phase II ESA that included surface and shallow soil sampling was performed to assess the potential impacts to project site oils from organochlorine pesticides, arsenic, and lead. Some building materials on the project site were found to contain asbestos or lead-based paint, though no organochlorine pesticide contamination was found in project site soils, and total arsenic was below State-level impact thresholds. Lead concentrations in project site soil samples exceed DTSC soil screening levels for lead in residential soils; however, the project site was determined to exhibit no evidence of recognized environmental conditions, historical recognized environmental conditions, and/or controlled recognized environmental conditions indicative of releases or threatened releases of hazardous substances on, at, in, or to the project site that would prohibit residential uses. The Phase II ESA provided no further investigation recommendations, but did state the need for proper treatment and removal of lead-impacted surficial soils from the lead-based paints used on existing buildings. Taking a conservative approach to ensure there is no significant impact to the proposed residential development, the Phase II ESA recommends removing the upper 1-foot of soil around and up to approximately 6 feet away from existing buildings and associated features where lead-impacted soils have been identified during the Phase II ESA soil sampling efforts (LOR Geotechnical Group, Inc. 2019). Adherence with federal and State guidelines for removing lead-impacted soils would ensure project demolition and construction impacts would be less than significant.

Limited quantities of hazardous materials (such as solvents and low VOC paints or finishes) may be used during building construction. The transportation, use, storage, and disposal of construction materials and equipment would comply with applicable federal, State, and local regulations, standards, and guidelines.

Proposed residential uses would not emit or handle hazardous materials beyond typical household and landscape waste and materials, and the project would not create a hazard to the public through storage or transportation of hazardous materials.

There are no schools within a 0.25-mile radius of the project site. The nearest school, Roosevelt Elementary, is 0.6 mile southeast of the project site. New schools are not planned in the vicinity of the project area.

The 2013 GPU EIR found that impacts would be less than significant as all projects would be required to comply with GPU policies, standards and plans indicated in other documents that govern hazardous materials, and federal, State, and City regulations. This project is consistent with the analysis and conclusions provided in the GPU EIR and would have a less than significant impact on all three issue areas.

d. Would the project 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?

Figure 4.6-1, *Hazardous Materials Sites*, in the GPU EIR indicates hazardous sites along Orange Grove Avenue and north of the project site along Dudley Street. Review of Cortese List sites indicates the project site is not listed as a hazardous waste site and there are no listed hazardous sites within 1,000 feet of the project site (DTSC 2020). The nearest site is on North Dudley Street, listed as a school investigation site and the next closest is on South Garey Avenue, also listed as a school investigation site. According to the GeoTracker database, there are no reports of leaking underground storage tanks on the site or within 1,000 feet (SWRCB 2020a). The closest clean-up site is near White Avenue, approximately 0.5 mile east of the project site. Neither the project site nor its vicinity are contaminated by or under statewide investigative orders for per- and polyfluoroalkyl substances testing in drinking and non-drinking water sources (SWRCB 2020b).

Furthermore, the project site has been developed and in use as a church facility since 1949. Church uses are not known to use, store, or generate hazardous materials or waste that could contaminate a site. However, as stated in the above discussion provided for criteria ‘a,’ ‘b,’ and ‘c,’ existing buildings contain asbestos and lead-based paints. Adherence to federal and State guidelines for removing lead-impacted soils would ensure project demolition and construction impacts would be less than significant. Therefore, the project would have a less than significant impact.

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

There are no existing public or private airstrips in the city (City of Pomona 2013). The closest airport to the project site is Brackett Field, located approximately 1.4 miles north of the project site. The project site is within Zone E of the Brackett Field Airport Influence area, which does not contain any building height or use limits and is at low risk for near-airport accidents (Los Angeles County 2015). Project residents may experience occasional overflights, but noise impacts from airport- and flight-related uses would also be low. Therefore, the project would have a less than significant impact.

f. Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

The project would increase traffic around the project site and vicinity, due to the addition of up to 127 residents. However, the project would not result in any street closures that could impede

emergency access or evacuation. The GPU EIR includes updates for several General Plan policies pertaining to disaster preparedness and emergency response and concludes that implementation of updated policies associated with emergency response and evacuation in the city would result in a less than significant impact (see Section 17, *Transportation and Traffic*, for additional information). Therefore, the project would have a less than significant impact.

g. Would the project expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?

The project site is within an urbanized area in the northern portion of the city; as such, there are no wildlands in the vicinity of the project site. As stated in the GPU EIR, the southwestern corner of the city is particularly susceptible to wildland fires. The project site and vicinity are not identified as a Very High Fire Hazard Severity Zone by CALFIRE (CalOES 2015). Implementation of the project would not significantly increase exposure of people or structures to a significant risk of loss, injury, or death involving wildland fires. Therefore, the project would have a less than significant impact.

Conclusion

Further environmental analysis is not required because:

1. No peculiar impacts from hazards or hazardous materials that are not substantially mitigated have been identified as a result of the project or its site. Application of the uniformly applied GPU policies substantially mitigates potentially significant impacts to a level of less than significant.
2. There are no potentially significant impacts from hazards or hazardous materials that were not analyzed as significant in the GPU EIR.
3. There are no potentially significant off-site and/or cumulative impacts that were not discussed by the GPU EIR.
4. No substantial new information has been identified that results in a hazardous or hazardous materials impact that is more severe than anticipated by the GPU EIR.
5. The conclusion of the GPU EIR relating to Hazards and Hazardous Materials found all impacts to be less than significant with the incorporation of Mitigation Measure HAZ-1, which were adopted as GPU Policies 6C.P10, 7G.P54, 7G.P55, and 7G.P56. No additional mitigation measures contained in the GPU EIR apply to impacts to Hazards and Hazardous Materials.

10 Hydrology and Water Quality

	Project Peculiar Impact that is not Substantially Mitigated by Uniformly Applied Policies	Significant Impact not Analyzed as Significant in the prior EIR	Potentially Significant Off-site or Cumulative Impact not Discussed in the prior EIR	Adverse Impact More Severe based on Substantial New Information	GPU EIR Mitigation Measures apply to this Project Yes	No
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 erosion or siltation on- or off-site;	□	□	□	□	□	■
ii) Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site	□	□	□	□	□	■
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?	□	□	□	□	□	■

	Project Peculiar Impact that is not Substantially Mitigated by Uniformly Applied Policies	Significant Impact not Analyzed as Significant in the prior EIR	Potentially Significant Off-site or Cumulative Impact not Discussed in the prior EIR	Adverse Impact More Severe based on Substantial New Information	GPU EIR Mitigation Measures apply to this Project Yes	No
d. In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	□	□	□	□	□	■
e. Inundation by seiche, tsunami, or mudflow?	□	□	□	□	□	■

City of Pomona General Plan Update, Corridors Specific Plan, Active Transportation Plan, and Green Plan EIR Summary

The GPU EIR discusses hydrology and water quality impacts on pages 4.7-1 through 4.7-23. It addresses the following potential impacts, as summarized below: water quality standards; groundwater; alteration of existing drainage patterns resulting in erosion or flooding; urban runoff in relation to storm drainage system capacity and increased pollutants; flood hazards; and inundation by seiche, tsunami, or mudflow.

Water Quality Standards

Development under the GPU would result in demolition and/or construction activity that could generate pollutants that might adversely affect urban runoff. Such activities could include road improvements and realignments, installation and realignment of utilities, demolition of existing structures for replacement, new development, and the potential replacement and/or improvement of drainage facilities. Though development under the GPU could result in an increase in pollutants in stormwater and wastewater, new development would be concentrated in areas ideal for infill development and urban expansion, and would be required to comply with all City of Pomona requirements under the National Pollutant Discharge Elimination System (NPDES) permit. Pomona requires the preparation of a stormwater pollution prevention plan (SWPPP) to achieve compliance with the NPDES General Construction Stormwater Activity Permit. All development would also be subject to regional and local regulations including PMC Section 18-495, *Reduction of pollutants in stormwater*, which states, "Any person engaged in activities that will or may result in pollutants entering the City storm sewer system shall undertake all practicable measures to reduce such pollutants." Contractors constructing new development projects are required to implement BMPs, such as regular watering of exposed soils to control dust during construction and vegetation of proposed landscaped/grassed swale areas as soon as feasible following grading activities.

Furthermore, the following General Plan policies were included in the GPU to minimize stormwater and erosion impacts during construction:

- **Pomona General Plan Policy 7E.P24**, to encourage rainwater and wastewater BMPs to minimize rainwater runoff, and maximize rainwater and greywater collection and reuse for both private and public construction in new development and renovation projects.
- **Pomona General Plan Policy 7E.P30**, to call for the City to continue working with the Los Angeles Regional Water Quality Control Board (RWQCB) in the implementation of the NPDES for the protection of surface water and groundwater quality.

- **Pomona General Plan Policy 7E.31**, to require the City to review and update City-adopted rainwater and runoff BMPs as needed.

The GPU EIR states that although the increase in volumes or rates of discharge and associated pollutants in runoff would be minimal, the operation of future development envisioned in the GPU could potentially result in the addition of contaminants into both the stormwater runoff entering the City's drainage system and the wastewater stream entering the local wastewater collection and treatment system. Under the RWQCB's NPDES permit system, all existing and future municipal and industrial discharges to surface waters in the City would be subject to regulations. All development in the City would be subject to the provisions of the City's NPDES Municipal Separate Storm Sewer Systems (MS4) Permit (Order No. R4-2012-0175).

City Municipal Code Sections 18-491 through 18-496 prohibit any discharge that would result in or contribute to degradation of water quality via stormwater runoff. All discharges of material other than stormwater must be in compliance with an NPDES permit issued for the discharge with appropriate structural BMPs, such as hydrodynamic devices, swales/biofilters, and basins, and nonstructural BMPs, such as activity restrictions and drought-tolerant landscaping.

Taken together, these measures were determined to reduce potential adverse impacts to water quality to a level of less than significant.

Groundwater

Due to the urban nature of the GPU area, development facilitated by the GPU would consist of infill in already urbanized areas, where increases in impervious surfaces would be minimal. The GPU EIR states that new development must comply with Los Angeles County's MS4 permit by employing BMPs for on-site detention/retention of stormwater runoff. Therefore, development would not substantially interfere with groundwater recharge, and this impact would be less than significant.

Alteration of Existing Drainage Patterns Resulting in Erosion or Flooding

Development under the GPU would result in alterations to drainage, such as changes in ground surface permeability via paving, and changes in topography via grading and excavation. The GPU encourages integration of Low Impact Development (LID) stormwater management practices to specifically reduce the potential for development to alter existing drainage patterns. Integration of LID stormwater management practices combined with GPU policies, the City's Municipal Code, and NPDES regulations were determined to reduce erosion risks from drainage alterations to less than significant.

Urban Runoff in Relation to Storm Drainage System Capacity and Increased Pollutants

The vast majority of development under the GPU would be infill development or urban expansion in or adjacent to areas that are already paved, and would not result in any significant increase in stormwater runoff that would be likely to exceed existing storm drainpipe capacity or creek culvert capacity, or increase pollutants in stormwater runoff. Required storm drain facility upgrades could result in short-term construction impacts due to earth trenching and other earth moving activities, which were noted in the GPU EIR as being similar to construction impacts. Any upgrades, expansion, and construction of necessary utilities to accommodate new development would be subject to project-specific environmental review. Therefore, the impact was determined to be less than significant.

Flood Hazards

The GPU EIR states that Pomona does not lie in a 100- or 500-year floodplain, as delineated by the Federal Emergency Management Agency (FEMA). All creeks in the City have been channelized and remain dry except during storm events. The following General Plan policies were included in the GPU EIR to further minimize risks associated with storm flooding:

- **Pomona General Plan Policy 7G.P46**, which calls for the preparation of a Master Drainage Plan to analyze existing system deficiencies and proposed improvements to support development of the General Plan vision.
- **Pomona General Plan Policy 7G.P47**, which ensures floodplain protection by retaining existing open space and creating new open areas needed to retain stormwater, recharge aquifers, and prevent flooding.
- **Pomona General Plan Policy 7G.P48**, which calls for the City to maintain current flood hazard data and coordinate with USACE, FEMA, Los Angeles County Department of Public Works and other responsible agencies to coordinate flood hazard analysis and management activities.
- **Pomona General Plan Policy 7G.P49**, which requires that new development incorporate features into site drainage plans that would reduce impermeable surface area, increase surface water infiltration, and minimize surface water runoff during storm events.

The potential for flood events via dam inundations exists in Pomona since the City is on the edge of the San Antonio Dam and Live Oak Reservoir inundation limits. The U.S. Army Corps of Engineers (USACE) established a Dam Safety Program to protect residents and businesses in areas that may be affected in case of failures of the San Antonio Dam and Live Oak Reservoir. PMC Sections 18-640 through 18-642 establish methods and provisions that would minimize flood damage to new development projects.

- **PMC Section 18-640**, which requires all new construction and substantial improvements in a flood-prone area to be designed and adequately anchored to prevent flotation, collapse, or lateral movement.
- **PMC Sections 18-641 and 18-642**, which establish requirements for the construction of utilities in flood-prone areas.

Therefore, the GPU EIR determined impacts to flood hazards would be less than significant with adherence to General Plan policies and City's municipal codes.

Inundation by Seiche, Tsunami, or Mudflow

The GPU areas are located well above sea level and nearly 40 miles from the nearest coastline. Any risk of inundation by seiche, tsunami or mudflow in the City would be remote, and would not be increased as a result of development under the GPU. Therefore, no impact would occur.

Project-Specific Impacts

a. Would the project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?

As discussed in the GPU EIR, new development projects in the City are required to comply with all City requirements under its NPDES permit (Order No. 2009-0009-DWQ, NPDES No. CAS000002, dated July 1, 2010). The City requires the preparation of a project-specific SWPPP in order to comply with the NPDES. The SWPPP must describe the site, the facility, erosion and sediment controls, runoff water quality monitoring, means of waste disposal, implementation and approved local plans, control of construction sediment and erosion control measures, maintenance responsibilities, and non-stormwater management controls, as well as incorporation of BMPs. The SWPPP requirements would need to be satisfied prior to beginning construction on any project located on a site greater than one acre.

As such, the project would be required to prepare a SWPPP to comply with the City's NPDES permit prior to construction activities. As stated in the GPU EIR, construction contractors are responsible for implementing and monitoring BMPs, which include, but are not limited to, erosion and sedimentation control/drainage plans to ensure requirements of the City's NPDES permit are being met, and that contaminants are not released into urban runoff. The project would not violate water quality standards or otherwise substantially degrade water quality with adherence to the City's General Plan policies, municipal codes, and compliance with the applicable NPDES permit. Therefore, the project would have a less than significant impact on water quality.

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

Groundwater was not encountered on the project site based on soil borings up to a maximum depth of 34 feet below ground surface (LOR Geotechnical Group, Inc. 2019). Implementation of the project would not increase the amount of impervious surface on the site than compared to existing conditions since the project site is fully developed. The project would include drainage improvements on the project site and for off-site drainage and sewer connections. Furthermore, the project would not rely on groundwater supplies from the project site since water utilities would be provided by the City's Public Works Department. Therefore, the project would not significantly interfere with groundwater recharge, and the project would have a less than significant impact on groundwater supplies or recharge.

c. Would the project 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 erosion or siltation on- or off-site?

ii. Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?

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. Impeded or redirect flood flows?

The project site is fully developed with existing church uses with outdoor recreational areas and a surface parking lot. The project site is relatively flat, ranging between 857 to 862 feet above mean sea level. The proposed residential use would not generate substantial sources of polluted runoff. The project, as designed, would not increase the amount of impervious surface on the project site since the project site is fully developed. According to the project site plan, implementation of the project would increase pervious surfaces on the site via landscaped front and side yards for each of the proposed 33 single-family residences, and the common open space in the center of the site for residential use.

Project construction activities would implement BMPs to prevent substantial erosion or siltation on- or off-site (to be specified in a project-specific SWPPP), and the project site would be fully developed with no bare dirt left exposed (Appendix A). Stormwater runoff flowrate is anticipated to decrease with the project due to the increase in pervious surfaces and improvements to on-site stormwater detention systems as part of the project. Therefore, the project would not alter existing drainage patterns in a manner that would result in erosion or flooding, nor increase the rate or amount of stormwater runoff to exceed the existing or planned drainage system capacity. The proposed residential use would not generate a substantial amount of polluted runoff. The project would be consistent with Pomona General Plan Policies 7E.P24 and 7E.P49, which require new developments to incorporate features that minimize surface water runoff during storm events, such as stormwater detention basins and biofiltration systems. Therefore, the project would have a less than significant impact.

d. Would the project be in flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

As stated in the GPU EIR, no portion of the City, including the project site, is within a 100- of 500-year flood hazard area. As stated above, the proposed residential use would not generate substantial amounts of pollutants. The project site elevation ranges between 857 to 862 feet above mean sea level and is nearly 40 miles east from the nearest coastline. There are no lakes located in the immediate vicinity of the project site; the San Jose Creek is located approximately 0.2 mile north of the project site, but is channelized and surrounded by existing residential development. The project would therefore have no impact related to flood or tsunami hazards.

According to Figure 4.7-2, *Dam and Reservoir Inundation Zones*, in the GPU EIR, the project site is not within the inundation limits of the San Antonio Dam or Live Oak Reservoir. Regardless, the GPU EIR states that implementation of Pomona Municipal Code Sections 18-640 through 18-642, FEMA requirements, and the USACE's Dam Safety Program would ensure public safety from potential dam inundations and impacts would be less than significant.

The Puddingstone Reservoir, located approximately two miles northwest from the project site in the City of San Dimas, is the nearest body of open water. Due to existing topography and distance between the project site and the Puddingstone Reservoir, risk of inundation by seiches would be remote and would not increase as a result of the project. Therefore, the project would have a less than significant impact.

Conclusion

Further environmental analysis is not required because:

1. No peculiar impacts to hydrology or water quality that are not substantially mitigated have been identified as a result of the project or its site. Application of the uniformly applied GPU policies substantially mitigates potentially significant impacts to a level of less than significant.
2. There are no potentially significant impacts to hydrology or water quality that were not analyzed as significant in the GPU EIR.
3. There are no potentially significant off-site and/or cumulative impacts that were not discussed by the GPU EIR.
4. No substantial new information has been identified that results in an impact that is more severe than anticipated by the GPU EIR.
5. The conclusion of the GPU EIR relating to Hydrology and Water Quality found all impacts to be less than significant. There are no mitigation measures contained in the GPU EIR that apply to impacts to Hydrology and Water Quality.

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11 Land Use and Planning

	Project Peculiar Impact that is not Substantially Mitigated by Uniformly Applied Policies	Significant Impact not Analyzed as Significant in the prior EIR	Potentially Significant Off-site or Cumulative Impact not Discussed in the prior EIR	Adverse Impact More Severe based on Substantial New Information	GPU EIR Mitigation Measures apply to this Project Yes	No
Would the project:						
a. Physically divide an established community?	□	□	□	□	□	■
b. Cause a significant environmental impact due to a conflict with any applicable land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	□	□	□	□	□	■

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The GPU EIR discusses land use and planning-related impacts on pages 4.8-1 through 4.8-46. The GPU EIR discussions of land use and planning-related impact areas are summarized below.

- **Physical Division of an Established Community.** Development under the GPU would not include components that would physically divide the existing community. Future development would take place largely on existing parcels throughout Pomona. Street modifications anticipated under the GPU could be expected to unite the city's existing districts and neighborhoods with an overall city identity that builds upon Pomona's existing urban structure, and through improvements to the city's existing transportation network that focuses on improving mobility through means other than constructing new roads.
- **Introduction of New Land Uses that Could Conflict with Existing Land Uses.** The city is largely developed with a mix of land uses. Implementation of the GPU would be expected to replace some existing uses and buildings to add new residential units, office space, and commercial services to support those living and working throughout Pomona. These uses would be similar in character to the uses that are currently found in the city, with increased density and intensity in select areas throughout Pomona. Implementation of the GPU would not introduce new uses that would conflict with established uses in Pomona.
- **Conflict with Applicable Land Use Plans, Policies or Regulations.** Implementation of the GPU would not fundamentally conflict with any of Pomona's land use plans, policies or regulations adopted for the purpose of avoiding or mitigating effects that could result in adverse physical changes in the environment. The GPU was developed to provide specific policy guidance for future development in Pomona, consistent with the City land use plans, policies, and regulations. Adoption of the GPU would make it an amendment to the Pomona General Plan, which would effectively eliminate any conflict with General Plan Policies, reducing any potential impact to a level of less than significant.

The GPU EIR includes a listing of policies specific to projects anticipated under the GPU, and implementation of these policies would ensure land use impacts are less than significant. The GPU EIR also includes two mitigation measures that propose additional GPU policies to ensure projects under the GPU are consistent with adopted SCAG policies:

- **Pomona General Plan Policy 7E.P8**, included as GPU EIR Mitigation Measure LU-2 to state: Consider the most recent annual report on open space conservation in planning and evaluating projects in areas with regionally significant open space resources, including Bonelli Regional Park, East San Gabriel Valley Significant Ecological Area, and others, to ensure consistency with the open space conservation policies and goals of the SCAG Regional Comprehensive Plan.
- **Pomona General Plan Policy 7E.P17**, to require large projects (exceeding 150,000 square feet of development) to incorporate Transportation Demand Management techniques.
- **Pomona General Plan Policy 7E.P18,** to require dust abatement for all new construction and redevelopment projects.
- **Pomona General Plan Policy 7E.P24**, to encourage rainwater and wastewater BMPs to minimize rainwater runoff and maximize rainwater and greywater collection and reuse for private and public construction in new development and renovations.
- **Pomona General Plan Policy 7E.P37**, included as GPU EIR Mitigation Measure LU-1 to state: Encourage provision of dual plumbing new construction, and provide incentives for plumbing retrofits in existing development, to enable the safe and easy use of recycled water in toilets and for landscaping.

Project-Specific Impacts

a. Would the project physically divide an established community?

Consistent with the discussion in the City's GPU EIR, the project would be constructed on an existing parcel in the T4-B "Neighborhood Edge" and T3 transect zones, which promote a variety of residential housing types designed to be compatible with existing homes. The project site is developed with a church, a parking lot, and associated structures. Proposed development of 33 single-family residences would include the provision of pedestrian and vehicle circulation pathways within the project site, that would connect to West Orange Grove Avenue. Proposed pedestrian and vehicle circulation pathways would not alter the existing, off-site roadway network. The project does not include the development of any new roadways that would cut through existing neighborhoods. Therefore, the project would have no impact.

b. Would the project cause a significant environmental impact due to a conflict with any applicable land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

Consistent with the discussion in the GPU EIR for the plan area, the project would not introduce new land uses that do not exist in Pomona. Single- and multi-family residential uses exist adjacent to and near the project site. The proposed residential use would intensify permitted uses for the site, which currently features a church and associated buildings as well as parking and private recreation area.

The project site's General Plan Land Use designation is Residential Neighborhood place type. The southern portion of the project site fronting West Orange Grove Avenue is in the T4-B "Neighborhood Edge" transect zone, which promotes grand scale development that is compatible

with medium-scale, multi-family housing and townhomes with a more residential character; the remainder of the site is within the T3 transect zone, which promotes a variety of single-family housing types that are designed to be compatible with existing adjacent homes. The project would be consistent with the vision as it entails infill development of residential uses adjacent to existing residential uses.

As shown in the proposed site plan (Figure 3), proposed single-family homes along West Orange Grove Avenue would have a landscaped buffer between the residences and the roadway, with front, back, and side yards around each home. The proposed residential use and site plan are consistent with the vision of the GPU. The GPU has policies that apply to the project, and a discussion of project consistency with selected policies follows in Table 13. GPU policies are emphasized because the GPU was developed to provide specific policy guidance for future development in select corridors throughout Pomona, consistent with City land use plans, policies, and regulations. As specified in the environmental checklist (CEQA Guidelines Appendix G), the discussion focuses on policies adopted for the purpose of avoiding or mitigating an environmental effect. Table 13 provides project consistency analysis according to General Plan policies.

Table 13 Consistency with General Plan Policies

GPU Goal or Policy	Analysis
6E.G1. Preserve stable neighborhoods by focusing new intensity and activity in clusters at major crossroads and areas of existing intensity throughout the city.	**Consistent.** The project site is in the 800 block of West Orange Grove Avenue, identified as a Neighborhood Edge area in the GPU. The project site is developed with an institutional use and has adjacent residential uses on all sides. Project implementation entails infill development of residential uses that would intensify that use on the site. Therefore, the project would be consistent with Policy 6E.G1.
6E.P5. Require development to reduce height and intensity on portions of properties adjacent to stable residential neighborhoods. Permitted heights and intensities in these locations should be compatible with the scale of the existing residential neighborhood.	**Consistent.** The project proposes to build 33 single-family detached homes on the site that would be two-stories high. The development would be adjacent to existing single- and multi-family, one-story residences on all sides, including south of the project site across West Orange Grove Ave. This would be consistent with existing development and, therefore, the project would be consistent with Policy 6E.P5.
7E.P24. For both private and public construction in new development and renovations, encourage rainwater and wastewater BMPs to minimize rainwater runoff, and maximize rainwater and greywater collection and reuse.	**Consistent.** The project is required to prepare a SWPPP to comply with the City's NPDES permit prior to construction activities. Project construction activities would implement BMPs to prevent substantial erosion or siltation on- or off-site (to be specified in a project-specific SWPPP), and the project site would be fully developed with no bare dirt left exposed (Appendix A). The project would increase the amount of pervious surfaces on the site based on the proposed site plan, which includes implementation of landscaped front and side yards and common open space in the center of the site. Therefore, the project would be consistent with Policy 7E.P24.

GPU Goal or Policy	Analysis
7E. P33. Require that all new development or expansion of existing facilities bear the cost of expanding the wastewater disposal system to handle the increased loads anticipated by development.	**Consistent.** The project would include on-site stormwater and wastewater disposal system improvements to convey stormwater flows and manage the anticipated increase in wastewater disposal. Connections and improvements to existing stormwater and wastewater conveyance infrastructure immediately off-site would also be included and completed as part of the project. The project would also be conditioned to provide fair-share contributions for the future expansion of the City's wastewater disposal system. Therefore, the project would be consistent with Policy 7E.P33.
7F.P8. Ensure that garages do not dominate streetscapes. ▪ Locate parking to the side of or behind buildings and along alleyways to maintain an active street edge, especially where pedestrian activity is desired. ▪ Discourage blank, unarticulated parking garage facades. ▪ Minimize the façade width of single-family homes so that no more than fifty percent of the façade is occupied by a garage. ▪ Allow for reductions of front yard setbacks to encourage garages to be set back from the front edge of the house. ▪ Orient garage doors 90 degrees from the street. ▪ Incorporate design elements on the second level above garages (such as bay windows or balconies) to reduce the scale and visual dominance of the garage.	**Consistent.** Proposed dwelling units would have attached garages with access situated a varied locations, based on whether the home was Plan 1, 2, or 3 (see Figure 3). The variation would keep garages from dominating the streetscape, both within the project development and along West Orange Grove. All garage doors would be oriented roughly 90 degrees from the street. All proposed building designs contain articulations and a variety of accents (such as windows, trims, roofing material variations, and exterior finishes) to complete the building facades within the aesthetic theme of the development. Therefore, the project would be consistent with Policy 7F.P8.
7F.P9. Maintain an open relationship between buildings and street edge, avoiding fencing and significant landscape barriers, except for street trees and sidewalk plantings. Along major collectors and corridors, allow fencing, low walls, and/or landscaping that maintains visibility and visual interaction between residences and the street edge. Limit materials to wood, stone, decorative metal, or low hedges.	**Consistent.** Houses along West Orange Grove Avenue would be oriented to include landscaped setbacks and side or front yards, compliant with the vision of theT4-B and T3 transect zones. Wall materials would be visually compatible with proposed buildings and existing buildings in the vicinity of the project site. Therefore, the project would be consistent with Policy 7F.P9.

Source: City of Pomona 2014

The project site is zoned R-1-6,000, which permits detached single-family residences on lots that are 6,000 square feet minimum. The project would implement 33 single-family homes on lots sized 2,833 sf to 5,188 sf, which is inconsistent with the applicable development standards for the R-1-6,000 zone. However, the adoption of Senate Bill (SB) 330 (Housing Crisis Act of 2019) does not require a housing development to be rezoned if the property is consistent with the objective general plan standards and criteria. Government Code Section 65589.5(j)(4) states, "a proposed housing development project is not inconsistent with the applicable zoning standards and criteria, and shall not require a rezoning, if the housing development project is consistent with the objective general plan standards and criteria but the zoning for the project site is inconsistent with the general plan."

The project entails development of 33 single-family homes, which would result in a density of 9.2 dwelling units per acre. The project site is zoned R-1-6,000 which only allows one detached residential unit per lot with a minimum lot size of 6,000 square feet which is an equivalent density of seven dwelling units per acre. However, the project site's General Plan Land Use designation is Residential Neighborhood place type within the T3 and T4-B and transect zones as stated above. Both the T3 and T4-B transect zones allow for residential densities of up to 20 dwelling units per acre (City of Pomona 2014 and 2018). Therefore, a zoning amendment or variance request is not

required for the project because proposed residential uses and project as designed demonstrate consistency with the project site's General Plan Place Type and transect zone designations, pursuant to the provisions of SB 330 and Government Code Section 65589.5(j)(4).

In addition, Government Code Section 65589.5(j)(4) states that a local agency, such as the City of Pomona, may require proposed projects to comply with the zoning regulations consistent with the City's General Plan. The Small Lot Residential Zone standards are consistent with the City's Residential Neighborhood General Plan land use designation (City of Pomona 2010). As such, the City determined that the proposed project is required to comply with the zoning regulations for the Small Lot Residential Zone district. Table 14 summarizes the project consistency analysis according to the City's Small Lot Residential Zone development standards.

Table 14 Project Consistency with Small Lot Residential Development Standards

Project Component	Small Lot Development Standard	Project[1]	Consistent?
Land Use	Single-family residential	Single-family residential	Yes
Acreage	10 acres (435,600 sf)	3.6 acres (156,875 sf)	No
Lots			
Width	38' min	43' min	Yes
Depth	46' min	55' min	Yes
Lot Size	2,200 sf min, 4,600 sf max	Ranging from 2,883 sf to 5,188 sf	No
Dwelling Units			
Single-Family	Permitted	33 dwelling units	Yes
Density	7 du/acre min, 10 du/acre max	9.2 du/acre	Yes
Unit Size (min floor area)	1,900 sf (for 3-bd)	1,687 sf – 1,955 sf	No
Coverage	70 percent max	< 70 percent per lot	Yes
Height	35' or 3 stories max	28'-2" ft max and 2 stories	Yes
Yards			
Front yard	10' min (5' min facing public street)	> 18'	Yes
Side Yard	No min	> 2.4' (5' average)	Yes
Rear Yard	5' min	> 11'	Yes
Building Separation	6' min	10' min	Yes
Parking			
Residential	2 spaces min (in garage) per unit	66 parking spaces	Yes
Guest	Accommodated in driveways and designated areas on interior streets	66 parking spaces on driveways 17 parking spaces designated	Yes
Total Parking Spaces	**66+ required parking spaces**	**149 parking spaces**	Yes
Open Space			
Common Open Space	5% of gross acreage min, and 10' length or width min	0.32 acres fully landscaped with covered BBQ area and tot lot (approx. 9% of gross acreage)	Yes
Private Open Space	100 sf min, and 5' length or width min	> 100 sf, varies based on lot size	Yes

[1] sf = square feet; du/acre = dwelling units per acre; min = minimum; max = maximum

Source: City of Pomona 2018b

The project is consistent with applicable GPU policies and development standards, as summarized in Table 13. Though there are several Small Lot Residential development standards for which the project is inconsistent, as shown in Table 14, the proposed residential uses and project as designed are consistent with the existing General Plan land use designation and intent of the Residential Neighborhood place type, pursuant to the provisions of SB 330 and Government Code Section 65589.5(j)(4). Therefore, a zoning amendment or variance request is not required to implement the project, and the project would have a less than significant impact.

Conclusion

Further environmental analysis is not required because:

1. No peculiar impacts to land use and planning that are not substantially mitigated have been identified as a result of the project or its site. Application of the uniformly applied GPU policies substantially mitigates potentially significant impacts to a level of less than significant.
2. There are no potentially significant impacts to land use and planning that were not analyzed as significant in the GPU EIR.
3. There are no potentially significant off-site and/or cumulative impacts that were not discussed by the GPU EIR.
4. No substantial new information has been identified that results in a land use and planning impact that is more severe than anticipated by the GPU EIR.
5. The GPU EIR included two mitigation measures to address impacts to Land Use and Planning. These mitigation measures were incorporated into the GPU policies. Implementation of GPU Policies 7E.P8 and 7E.P37 would ensure that potential project impacts to Land Use and Planning would be less than significant. No additional mitigation measures contained in the GPU EIR apply to impacts to Land Use and Planning.

12 Mineral Resources

	Project Peculiar Impact that is not Substantially Mitigated by Uniformly Applied Policies	Significant Impact not Analyzed as Significant in the prior EIR	Potentially Significant Off-site or Cumulative Impact not Discussed in the prior EIR	Adverse Impact More Severe based on Substantial New Information	GPU EIR Mitigation Measures apply to this Project Yes	No
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?	□	□	□	□	□	■

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The GPU EIR discusses mineral resources impacts on page 5-3 and identified no known mineral deposits of local importance or value to the region or residents of the state, or locally-important mineral resource recovery sites in Pomona. Consequently, the GPU EIR identified no impacts on mineral resources under implementation of the City's GPU, Corridors Specific Plan, Active Transportation Plan, or Green Plan.

Project-Specific Impacts

a. Would the project 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. Would the project 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?

There are no mineral resource zones identified in the city or project site (Department of Conservation 1983, California Geological Survey 2007). Because the project site is within an urbanized area without known mineral resources of value, impacts would remain as identified in the GPU EIR. Furthermore, the project site is fully developed with a church and associated parking and landscaped areas, which would be demolished as part of the project. The project would have no impact on mineral resources.

Conclusion

Further environmental analysis is not required because:

1. No peculiar impacts to mineral resources that are not substantially mitigated have been identified as a result of the project or its site. Application of the uniformly applied GPU policies substantially mitigates potentially significant impacts to a level of less than significant.
2. There are no potentially significant impacts to mineral resources that were not analyzed as significant in the GPU EIR.
3. There are no potentially significant off-site and/or cumulative impacts that were not discussed by the GPU EIR.
4. No substantial new information has been identified that results in a mineral resources impact that is more severe than anticipated by the GPU EIR.
5. The conclusion of the GPU EIR relating to Mineral Resources found all impacts to be less than significant. There are no mitigation measures contained in the GPU EIR that apply to impacts to Mineral Resources.

13 Noise and Vibration

	Project Peculiar Impact that is not Substantially Mitigated by Uniformly Applied Policies	Significant Impact not Analyzed as Significant in the prior EIR	Potentially Significant Off-site or Cumulative Impact not Discussed in the prior EIR	Adverse Impact More Severe based on Substantial New Information	GPU EIR Mitigation Measures apply to this Project Yes	No
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 applicable standards of other agencies?	□	□	□	□	□	■
b. Generation of excessive groundborne vibration or groundborne noise levels?	□	□	□	□	□	■
c. For a project 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?	□	□	□	□	□	■

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The GPU EIR discusses noise and vibration impacts on pages 4.9-1 through 4.9-28. The GPU EIR examined a range of potential impacts related to noise and vibration, including exposure of existing and new development to excessive noise levels, increased traffic noise, a cumulative increase in citywide noise levels, and construction-related noise and vibration. Impacts were assessed in the context of adopted planning documents.

Implementation of the GPU would generate or expose residents to ambient noise levels in excess of standards established in the City's General Plan or noise ordinance. The GPU EIR includes Mitigation Measure N-1 to specifically address vibration impacts on new development near rail lines. Adherence to the following General Plan policies was determined to reduce noise impacts to less than significant:

- **Pomona General Plan Policy 7G.P3**, to require the City to restrict noise and require mitigation measures for any noise-emitting construction equipment or activity.

- **Pomona General Plan Policy 7G.P4**, to require noise mitigating measures including, but not limited to, the use of double-paned soundproof windows near Metrolink stations to allow transit-oriented development to include office and residential uses.
- **Pomona General Plan Policy 7G.P7**, included as GPU EIR Mitigation Measure N-1 to state: Require applicants for new residential development within 130 feet of the Union Pacific Railroad (UPRR) tracks running through central Pomona, and within 100 feet of the Burlington Northern/Santa Fe Railroad (BNSF) tracks running through northern Pomona, to obtain the services of a professional acoustical consultants with demonstrated experience in vibrational analysis in order to assess vibrational impacts on the proposed development from current, planning, and reasonably anticipated future rail service, and to design mitigation measures, if necessary, to reduce the VdB level at the proposed residences to 72 VdB or lower as defined in the FTA's 2006 Transit Noise and Vibration Impact Assessment.

The railroads that traverse Pomona are another source of noise and vibration. The Burlington Northern/Santa Fe (BNSF) and Union Pacific (UPRR) Railroads operate rail lines that bisect the City. The BNSF line, also known as the Pomona North Line, runs through the northern part of the City, and the UPRR, also known as the Pomona South Line, runs through the central part of the City. Both lines are used for Metrolink passenger train service, and the Pomona South line also handles freight traffic. According to the GPU EIR, vibration levels from rail transit (at 50 feet from the source) range from approximately 75-85 VdB for high speed rail, approximately 80 VdB for commuter rail, and approximately 70-80 VdB for other forms of rail rapid transit. Vibration levels from rail activities have the potential to exceed the Federal Transit Administration's (FTA) 72 VdB threshold for sensitive receptors where people normally sleep but would not exceed the FTA's 100 VdB threshold for minor cosmetic damage to fragile buildings. Because the GPU calls for accommodating new housing in transit-oriented districts and urban neighborhoods in proximity to the Pomona South and Pomona North rail lines, vibration-related impacts on residential development were determined to be less than significant with mitigation incorporated. The mitigation measure required to reduce the impact of groundborne vibration to new residential uses in proximity to Pomona's active rail lines was the inclusion of Pomona General Plan Policy 7G.7P (stated above).

The noise discussion herein is based on a project-specific Noise and Vibration Study (Noise Study) that was prepared by Rincon Consultants, Inc. (Appendix F). The Noise Study provides an overview of noise and vibration, summarized below.

Noise Overview

Noise is unwanted sound that disturbs human activity. Environmental noise levels typically fluctuate over time, and different types of noise descriptors are used to account for this variability. The unit of measurement used to describe a noise level is the decibel (dB). Decibels are measured on a logarithmic scale that quantifies sound intensity. A doubling of the energy of a noise source, such as a doubling of traffic volume, would increase the noise level by 3 dB; similarly, dividing the energy in half would result in a decrease of 3 dB (Rincon Consultants, Inc. 2020b).

The impact of noise is not a function of loudness alone. The time of day when noise occurs, and the duration of the noise are also important. In addition, most noise that lasts for more than a few seconds is variable in its intensity. Consequently, a variety of noise descriptors has been developed. The noise descriptors used for this analysis are the one-hour equivalent noise level (L_{eq}) and the community noise equivalent level (CNEL).

Noise that occurs at night tends to be more disturbing than that occurring during the day. Community noise is usually measured using Day-Night Average Level (L_{dn}), which is the 24-hour average noise level with a +10 dBA penalty for noise occurring during nighttime (10:00 p.m. to 7:00 a.m.) hours. It is also measured using CNEL, which is the 24-hour average noise level with a +5 dBA penalty for noise occurring from 7:00 p.m. to 10:00 p.m. and a +10 dBA penalty for noise occurring from 10:00 p.m. to 7:00 a.m. (Caltrans 2013). Noise levels described by L_{dn} and CNEL usually differ by about 1 dBA. The relationship between the peak-hour L_{eq} value and the L_{dn}/CNEL depends on the distribution of traffic during the day, evening, and night.

Noise levels may also be reduced by intervening structures. The amount of attenuation provided by this "shielding" depends on the size of the object and the frequencies of the noise levels. Generally, any large structure blocking the line of sight will provide at least a 5-dBA reduction in source noise levels at the receiver (Rincon Consultants, Inc. 2020b). Structures can substantially reduce occupants' exposure to noise as well. The Federal Highway Administration's (FHWA) guidelines indicate that modern building construction generally provides an exterior-to-interior noise level reduction of 20 to 35 dBA with closed windows.

Vibration Overview

While people have varying sensitivities to vibrations at different frequencies, in general they are most sensitive to low-frequency vibration. The normal frequency range of most groundborne vibration that can be felt by the human body starts from a low frequency of less than 1 Hz and goes to a high of about 200 Hz (Rincon Consultants, Inc. 2020b). Vibration in buildings, such as from nearby construction activities, may cause windows, items on shelves, and pictures on walls to rattle. Vibration of building components can also take the form of an audible low-frequency rumbling noise, referred to as groundborne noise. Groundborne noise is usually only a problem when the originating vibration spectrum is dominated by frequencies in the upper end of the range (60 to 200 Hz), or when foundations or utilities, such as sewer and water pipes, physically connect the structure and the vibration source (FTA 2018). Although groundborne vibration is sometimes noticeable in outdoor environments, it is almost never annoying to people who are outdoors. The primary concern from vibration is that it can be intrusive and annoying to building occupants and vibration-sensitive land uses.

Vibration amplitudes are usually expressed in peak particle velocity (PPV) or root mean squared (RMS) vibration velocity. The PPV and RMS velocity are normally described in inches per second (in/sec). PPV is defined as the maximum instantaneous positive or negative peak of a vibration signal. PPV is often used in monitoring of blasting vibration because it is related to the stresses that are experienced by buildings (Caltrans 2020).

Regulatory Setting

The Noise & Safety chapter of the GPU provides a description of existing noise levels and sources and incorporates comprehensive goals and policies. The GPU includes the Community Noise Exposure table, which establishes acceptable noise levels for different land uses to minimize the negative impacts of noise, especially at sensitive receiver locations. According to the Community Noise Exposure table, ambient noise levels up to 60 CNEL are normally acceptable and ambient noise levels up to 70 CNEL are conditionally acceptable[2] for single-family residential development.

[2] According to the Noise & Safety chapter of the GPU, exposure to "conditionally acceptable" noise levels means that new construction or development should be undertaken only after a detailed analysis of the noise reduction requirements I made and needed noise insulation

In addition to the exterior noise standards, the General Plan Update identifies a residential interior noise standard of 45 CNEL (City of Pomona 2014).

To implement the City's noise policies, Pomona Municipal Code (PMC) Chapter 18, Article VII, *Noise and Vibration Control*, establishes a series of regulations and standards to prevent excessive noise that may jeopardize the health, welfare or safety of the citizens or degrade their quality of life. Specifically, PMC Section 18-311, *Exterior Noise Standards*, establishes exterior noise standards categorized by various noise zones in the City. As shown in Table 15, the noise standards for these zones differ between daytime (7:00 a.m. to 10:00 p.m.) and nighttime (10:00 p.m. to 7:00 a.m.) hours.

Table 15 Exterior Noise Level Standards

		Noise Levels (dBA[1])	
Noise Zone	Land Use	Daytime (7:00 a.m. to 10:00 p.m.)	Nighttime (10:00 p.m. to 7:00 a.m.)
1	Single-Family Residential	60 dBA	50 dBA

[1] A-weighted decibel (dBA) is defined as a decibel (dB) adjusted to be consistent with human response.

Source: PMC Sections 18-310 (*Designated Noise Zones*) and 18-311 (*Exterior Noise Standards*)

PMC Section 18-311(b) states that the noise levels in Table 15 shall not exceed one or more of the following:

- The noise standard for a cumulative period of more than 30 minutes in any hour;
- The noise standard plus 5 dBA for a cumulative period of more than 15 minutes in any hour;
- The noise standard plus 10 dBA for a cumulative period of more than five minutes in any hour;
- The noise standard plus 15 dBA for a cumulative period of more than one minute in any hour; or
- The noise standard plus 20 dBA for any period of time.

City Code Section 18-311(c) states that If the ambient noise level exceeds any of the noise limit categories in subsections (b)(1) through (4) of this section, the cumulative period applicable to such category shall be increased to reflect such ambient noise level. If the ambient noise level exceeds the noise limit category in subsection (b)(5) of this section, the maximum allowable noise level under such category shall be increased to reflect the maximum ambient noise level.

City Code Section 18-312(a), Interior Noise Standards, establishes interior noise standards residential noise zones in the City. The allowable interior noise level at residential uses is 40 dBA during the nighttime hours of 10:00 p.m. to 7:00 a.m. and an allowable daytime interior noise level is 50 dBA, between 7:00 a.m. and 10:00 p.m. These noise level limits shall be reduced by five dBA for impulse or simple tone noises of for noises consisting of speech or music; provided, however, that if the ambient noise level exceeds the resulting standard, the ambient shall be the standard.

City Code Section 18-312(b) states that interior noise levels shall not exceed one or more of the following:

- The noise standard for a cumulative period of more than five minutes in any hour;
- The noise standard plus 5 dBA for a cumulative period of more than one minute in any hour; or

features included in the design. Conventional construction, but with closed windows and fresh air supply systems or air condition, will normally suffice.

- The noise standard plus 10 dBA for any period of time.

City Code Section 18-312(c) states that If the ambient noise level exceeds any of the noise limit categories in subsections (b)(1) or (2) of this section, the cumulative period applicable to such category shall be increased to reflect such ambient noise level. If the ambient noise level exceeds the noise limit category in subsection (b)(3) of this section, the maximum allowable noise level under such category shall be increased to reflect the maximum ambient noise level.

City Code Section 18-316(d), Residential Property Nuisance, prohibits the operation on a residential property of any such set, instrument, stereo, television set, machine, loudspeaker, or similar device between the hours of 10:00 p.m. and 7:00 a.m. in such a manner as to be plainly audible at a distance of 50 feet from the building, structure, or vehicle in which it is located. Similarly, City Code Section 18-316(e), prohibits the operation of the same devices between the hours of 7:00 a.m. and 10:00 p.m. in such a manner as to be plainly audible at a distance of 150 from the building, structure, or vehicle in which it is located.

City Code Section 18-305, Exemptions, exempts construction noise and vibration from the City Code standards provided that such activities do not take place between the hours of 8:00 p.m. and 7:00 a.m. on weekdays, including Saturday, or at any time on Sunday or a federal holiday, and provided that 1) the noise levels created by such activities does not exceed the noise standard of 65 dBA at a residential property or the standards specified in City Code Section 18-311(b) described below, and 2) the vibration levels do not endanger the public health, welfare, and safety.

Sensitive Receivers

Noise exposure goals for various types of land uses reflect the varying noise sensitivities associated with those uses. Generally, a sensitive receiver is identified as a location where human populations (especially children, senior citizens, and sick persons) are present, and where there is a reasonable expectation of continuous human exposure to noise. The Noise & Safety chapter of the GPU describes noise-sensitive land uses as residences, schools, childcare facilities, convalescent centers and retirement homes (City of Pomona 2014). These uses are considered sensitive because the presence of excessive noise may interrupt normal activities typically associated with their uses.

Vibration-sensitive receivers, which are similar to noise-sensitive receivers, include residences and institutional uses, such as schools, churches, and hospitals. However, vibration-sensitive receivers also include buildings where vibrations may interfere with vibration-sensitive equipment that is affected by vibration levels that may be well below those associated with human annoyance (e.g., recording studies or medical facilities with sensitive equipment).

The nearest sensitive receivers to the site consist of single-family residences immediately adjacent to the site to the north, east, and west, as well as to the south across West Orange Grove Avenue.

Project-Specific Impacts

a. Would the project generate 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 applicable standards of other agencies?

Construction Noise Impacts

Project construction noise levels were modeled at a series of receivers along the nearby residential property lines and noise ground-floor contours were estimated. Estimated noise levels at adjacent residential property lines are summarized in Table 16. Noise modeling data is included in the Noise Study (Appendix F).

Table 16 Construction Noise Levels

Receiver Group	Description	Modeled Noise Level (dBA L_{eq} 1-hour)	Exceed Construction Threshold?[1]
1-3	Western project site boundary	63 - 66	Yes
4-8	North of project site across alley	61 - 62	No
9-13	Northeast of project site across Casa Hermosa Drive	58 - 64	No
14-16	Eastern project site boundary	63 - 66	Yes
17-26	South of project site across West Orange Grove Avenue	58 - 62	No

[1] The applicable daytime threshold (7:00 a.m. to 10:00 p.m.) is 65 dBA L_{eq} (1-hour) at residential properties.

Source: Rincon Consultants, Inc. 2020b

As shown in Table 16, maximum hourly noise levels during project construction were determined to exceed the City's 65 dBA L_{eq} construction noise level thresholds for existing sensitive receptors located along the western and eastern project site boundaries. The following construction noise-reducing practices are recommended to reduce temporary construction noise impacts to a less than significant level, and are included as Conditions of Approval for the project:

The project applicant shall reduce construction noise levels at the adjacent residences to 65 dBA L_{eq} (one-hour) or less through the following measures:

- Temporary noise barriers and/or blankets with a minimum height of six feet shall be constructed along the entire western project site boundary and along the segment of the eastern project site boundary that abuts 912 Casa Hermosa Drive and 845 West Orange Grove Avenue. The temporary noise barriers and/or blankets may be constructed of material with a minimum weight of two pounds per square foot with no gaps or perforations. Temporary noise barriers and/or blankets may be constructed of, but not limited to, 5/8-inch plywood, 5/8-inch oriented strand board, and hay bales. Example product sheets are included in Appendix F.
- A sign shall be provided at the yard entrance, or other conspicuous location, that includes a telephone number for project information, and a procedure where a field engineer/construction manager shall respond to and investigate noise complaints and take corrective action if necessary in a timely manner. The sign shall have a minimum dimension of 48 inches wide by 24 inches high. The sign shall be placed 5 feet above ground level.

- If a noise complaint(s) is registered, the contractor shall retain a City-approved noise consultant to conduct noise measurements at the use(s) that registered the complaint. The noise measurements shall be conducted for a minimum of one hour and shall include one-minute intervals. The consultant shall prepare a letter report summarizing the measurements and potential measures to reduce noise levels to the maximum extent feasible. The letter report shall include all measurement and calculation data used in determining impacts and resolutions. The letter report shall be provided to code enforcement for determining adequacy and recommendations, as well potential revocation of the variance if measures are inadequate.

Construction noise modeling was updated to reflect noise barriers from the above project construction noise Condition of Approval. Estimated construction noise levels at adjacent residential property lines are summarized in Table 17 Mitigated Construction Noise LevelsTable 17. Project construction noise levels would be reduced to a level that does not exceed applicable noise level limits pursuant to the City Code, and project construction noise impacts would be less than significant with adherence to the Condition of Approval.**Error! Reference source not found.**

Table 17 Mitigated Construction Noise Levels

Receiver Group	Description	Modeled Noise Level (dBA)[1]	Exceed Construction Threshold?
1-3	Western project site boundary	62 - 65	No
4-8	North of project site across alley	61 - 62	No
9-13	Northeast of project site across Casa Hermosa Drive	58 - 64	No
14-16	Eastern project site boundary	64 - 64	No
17-26	South of project site across West Orange Grove Avenue	58 - 62	No

[1] Receivers 1, 3, 14, and 16 for the previous modeling iteration were located on the property line. As these receivers location would be inside the proposed noise barrier, receivers were set farther back.

Source: Rincon Consultants, Inc. 2020b

Land Use Compatibility

The most predominant source of noise on and around the project site is vehicular traffic from Orange Grove Avenue. According to the Community Noise Exposure table in the City's Noise & Safety chapter of the General Plan Update (2014), ambient noise levels up to 60 CNEL are normally acceptable for low-density, single-family residences, and ambient noise levels up to 70 CNEL are conditionally acceptable for single- and multi-family residential development. In addition to the exterior noise standards, the General Plan Update identifies a residential interior noise standard of 45 CNEL (City of Pomona 2014).

Traffic noise levels were modeled at a series of receivers at the residential exterior use areas (backyards) and residential building façades were calculated (Rincon Consultants, Inc. 2020b). Estimated noise levels are summarized in Table 18**Error! Reference source not found.**. As shown, proposed residential uses are conditionally compatible with the noise environment. The FHWA's guidelines indicate that modern building construction generally provides an exterior-to-interior noise level reduction of 20 to 35 dBA with closed windows (FHWA 2011). To comply with the California Energy Code (Title 24 Part 6), buildings in California are constructed with single- or double-glazed windows, which provide an exterior-to-interior noise level reduction of at least 25 dBA. Based on a noise exposure level of up to 67 CNEL and a noise attenuation of 25 dBA, the

interior noise level at single-family residences facing Orange Grove Avenue would be up to 42 CNEL. Therefore, interior noise levels for the project would not exceed the City's interior noise standard of 45 CNEL, and the project would be compatible with the ambient noise environment.

Table 18 Traffic Noise Levels

Receiver Group	Modeled Noise Level (dBA)	Compatibility
Receivers in the backyard of Residences 1-13; 20-21, and 23-32	54 - 60	Normally Acceptable
Receivers in the backyard of Residences 14-19, 22, and 33	61 - 62	Conditionally Acceptable
Receivers at the first-floor façade of residences fronting Orange Grove Avenue	62 – 67	Conditionally Acceptable
Receivers at the second-floor façade of residences fronting Orange Grove Avenue	66 - 67	Conditionally Acceptable

[1] The applicable daytime threshold (7:00 a.m. to 10:00 p.m.) is 65 dBA L_{eq} at residential properties.

Source: Rincon Consultants, Inc. 2020b

Operational Noise Impacts

Operation of the project would generate noise from new heating, ventilation, and air conditioning (HVAC) equipment, delivery- and trash-hauling trucks, on-site vehicle circulation, and light outdoor recreation. Each residential unit would have an HVAC unit. The HVAC unit used in the analysis included a Carrier 38HDR060 split system condenser (Appendix F). The manufacturer's noise data lists the unit as having a sound power level of 72 dBA. A Carrier 38HDR060 split system with a sound power level of 72 dBA would generate a noise level of approximately 60 dBA L_{eq} at a distance of five feet.

HVAC noise levels were modeled and noise ground-floor contours were estimated in the Noise Study (Rincon Consultants, Inc. 2020). The project includes six-foot split-face block wall along the perimeter property lines. As receivers on perimeter property lines would be inside the block wall, modeled receivers were set 10 feet beyond the property line. Estimated noise levels at adjacent residential property lines are summarized in Table 19**Error! Reference source not found.**. As shown below, HVAC noise levels would not be anticipated to exceed applicable exterior noise standards from the City Code, and project impacts would be less than significant.

Table 19 HVAC Noise Levels

Receiver Group	Description	Modeled Noise Level (dBA)	Exceed Daytime Standard?[1]	Exceed Nighttime Standard?[1]
1-6	Western project site boundary	39 - 43	No	No
7-11	North of project site across alley	34 - 38	No	No
12-14	Eastern project site boundary	36 - 39	No	No

[1] The applicable daytime threshold (7:00 a.m. to 10:00 p.m.) is 60 dBA L_{eq} at residential properties and the applicable nighttime threshold (10:00 p.m. to 7:00 a.m.) is 50 dBA L_{eq} at residential properties.

Source: Rincon Consultants, Inc. 2020b

The project would require periodic delivery and trash hauling services, which generate noise from medium-duty truck operations and idling engines. However, noise associated with delivery and trash-hauling trucks would be an intermittent noise source and are already a common occurrence in

the project vicinity due to existing hotel, residential, and commercial uses that make up the developed urban area. Because delivery and trash trucks are already a common occurrence throughout the City and for the project site, such services would not result in a substantial permanent increase in ambient noise levels without the project. Operational noise impacts associated with delivery and trash-hauling trucks would be less than significant.

Operational noise associated with outdoor use areas (i.e., private yards and balconies) would include conversations, music, television, or other sound-generating equipment. These noise-generating activities would be comparable to those of existing residential uses in the project vicinity and would result in a negligible change to existing noise levels. Moreover, noise from conversation would be an intermittent and temporary noise source that would typically be limited to the daytime, where there is greater activity and this type of noise source is more acceptable. Furthermore, PMC Section 18-316 regulates the operation of any instrument, stereo, television set, machine, loudspeaker, or similar device from any building, structure, or vehicle onto an off-site residential property. Operational noise impacts associated with light recreation would be less than significant.

Therefore, operational noise generated by the project would not exceed the City's noise standards and impacts would be less than significant.

Off-site Traffic Noise Impacts

The project would generate new vehicle trips that would increase noise levels on nearby roadways. As discussed in the project Traffic Impact Analysis, the project is anticipated to generate 312 daily vehicle trips. The Traffic Impact Analysis study area includes roadway segments of Orange Grove Avenue, Weber Street, Lewis Street, and Hamilton Boulevard (Ganddini Group, Inc. 2020). Roadway segment volumes with and without project-generated traffic are shown in Table 20.

The project would not make alterations to roadway alignments or substantially change the vehicle classifications mix on local roadways. Therefore, the primary factor affecting off-site noise levels would be increased traffic volumes. Noise levels with and without project-generated traffic were developed based on algorithms and reference levels from the FHWA's Traffic Noise Model. Noise levels with and without project-generated traffic are shown in Table 20.

Table 20 Off-site Traffic Noise Increases

Roadway	Segment	Speed (mph)	Existing Volume[1] (ADT)	Existing + Project Volume[2] (ADT)	Existing Noise Level[1] (dBA)	Existing + Project Noise Level[2] (dBA)	Noise Level Increase (dBA)
W. Orange Grove Avenue	Dudley Street to Weber Street	35	8,200	8,300	63.2	63.3	0.1
	Weber Street to Lewis Street	35	9,200	9,400	63.7	63.8	0.1
	Dudley Street to Hamilton Boulevard	35	10,200	10,400	64.2	64.3	0.1
	East of Hamilton Boulevard	35	12,900	13,000	65.2	65.2	<0.1
Weber Street	South of Orange Grove Avenue	35	1,600	1,700	56.1	56.4	0.3
Lewis Street	North of Orange Grove Avenue	25	1,400	1,400	51.3	51.3	0.0
Hamilton Boulevard	South of Orange Grove Avenue	35	6,000	6,100	61.9	61.9	0.1

[1] Traffic Impact Analysis Opening Year (2023) Without Project Scenario.

[2] Traffic Impact Analysis Opening Year (2023) With Project Scenario.

Source: Ganddini Group, Inc. 2020; Caltrans 2017

Project-generated traffic noise increases would reach as high as 0.3 dBA, which would not exceed the 3 dBA criterion for off-site traffic noise impacts. Therefore, project impacts would be less than significant.

b. Would the project generate excessive groundborne vibration or groundborne noise levels?

Construction activities known to generate excessive ground-borne vibration, such as pile driving, would not be conducted by the project. The greatest source of vibration associated with project construction would be a large dozer, which may be used within 15 feet of the nearest off-site sensitive receivers. Groundborne noise and vibration from common construction equipment such as large bulldozers, loaded trucks, and jackhammers would attenuate to less than 0.2 PPV at 12, 10, and 5 feet, respectively. As the project construction is not anticipated to include operation of equipment within these distances, groundborne noise and vibration impacts associated with project construction would be less than significant.

The project entails residential uses on the project site. As such, operation of the project would not include any substantial vibration sources. Therefore, operational vibration impacts would be less than significant.

c. For a project located in 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?

There are no existing public or private airstrips in the City (City of Pomona 2013). Brackett Field is located approximately 1.4 miles north of the project site. The project site is within Zone E of the Brackett Field Airport Influence area, which does not contain any building height or use limits and is at low risk for near-airport accidents (Los Angeles County 2015). Project residents may experience occasional overflights, but noise impacts from airport- and flight-related uses would also be low since the project site is not located within the noise contours of the airport (Los Angeles County 2015). Therefore, no substantial noise exposure from airport noise would occur to construction workers, users, or residences of the project, and no impacts would occur.

Conclusion

Further environmental analysis is not required because:

1. No peculiar impacts to noise or vibration that are not substantially mitigated have been identified as a result of the project or its site. Application of the uniformly applied GPU policies substantially mitigates potentially significant impacts to a level of less than significant.
2. There are no potentially significant impacts to noise or vibration that were not analyzed as significant in the GPU EIR.
3. There are no potentially significant off-site and/or cumulative impacts that were not discussed by the GPU EIR.
4. No substantial new information has been identified that results in an impact that is more severe than anticipated by the GPU EIR.
5. The GPU EIR included one mitigation measure to address impacts related to Noise. This mitigation measure was incorporated into GPU Policy 7G.P7 to address groundborne vibration impacts from rail line operations within 100 feet of anticipated residential development. The project site is located approximately 0.65 miles north of the BNSF tracks, and is outside of the 100-foot vibration impact area. No additional mitigation measures contained in the GPU EIR apply to impacts related to Noise.

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14 Population and Housing

	Project Peculiar Impact that is not Substantially Mitigated by Uniformly Applied Policies	Significant Impact not Analyzed as Significant in the prior EIR	Potentially Significant Off-site or Cumulative Impact not Discussed in the prior EIR	Adverse Impact More Severe based on Substantial New Information	GPU EIR Mitigation Measures apply to this Project Yes	No
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?	□	□	□	□	□	■

City of Pomona General Plan Update, Corridors Specific Plan, Active Transportation Plan, and Green Plan EIR Summary

The GPU EIR discusses population and housing impacts on pages 4.10-1 through 4.10-11. The 2035 population forecast by Southern California Association of Governments (SCAG) predicts Pomona's population will increase by 47,450 new residents by 2035 for a total population of 197,400 residents. Development facilitated by the GPU would result in approximately 8,506 residential units and approximately 23,498 residents at buildout.

While the land use designations in the GPU could potentially accommodate higher levels of growth than envisioned by SCAG, the built-out nature of the city, focus on infill development, and state and regional demographic trends are anticipated to limit citywide growth to within the forecast amounts. The GPU EIR concluded that population growth would not exceed anticipated forecasts, substantial growth would not occur, and GPU-related impacts to population and housing would be less than significant. No mitigation measures were required or identified.

Project-Specific Impacts

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

The project entails infill development of 33 single-family residences on a site fronting West Orange Avenue. According to the California Department of Finance (DOF), Pomona has an estimated population of 154,817 and a household count of 41,822 (DOF 2020). Based on the City's General Plan Housing Element, amended in 2018, the average household size is 3.85 persons (City of Pomona 2018a). Therefore, the project would increase the local population by up to 127 persons (33 residences x 3.85 persons per unit). Furthermore, as a residential development, the project would not directly contribute to population or employment growth in the city through new employment. Since certification of the GPU EIR, SCAG adopted the 2020-2045 RTP/SCS on September 3, 2020. Therefore, the following analysis uses population and housing information from SCAG's 2020-2045 RTP/SCS to evaluate the project's impacts to population and housing growth.

The population growth forecasts in SCAG's 2020-2045 RTP/SCS estimate that population will increase in Pomona from 154,700 residents in 2016 to 187,600 residents by 2045 (SCAG 2020). Based on an estimated increase of 127 project residents, the project would account for approximately 0.4 percent of the city's residential growth forecast through 2045. Therefore, the project would not contribute to substantial growth in the city beyond that planned for by SCAG's 2020-2045 RTP/SCS and GPU.

The anticipated project population increase would also be within the population projections in the GPU EIR. The anticipated population growth associated with the project represents approximately 0.5 percent[3] of the potential population growth that would result from the GPU buildout. The project would not increase population growth in Pomona beyond that anticipated in the GPU and analyzed in the GPU EIR.

Similarly, the household growth forecasts in SCAG's 2020-2045 RTP/SCS estimate that the total number of households in Pomona would increase from 39,300 households in 2016 to 52,800 households by 2045 (SCAG 2020). The project would increase the number of households by 33, which would account for approximately 0.2 percent of the forecasted increase between 2020 and 2045. Therefore, the project's contribution to housing in the city would be within SCAG growth projections. In addition, according to the City's RHNA 6th Cycle and Housing Strategies Discussion on August 19, 2019, the City has currently met approximately 24 percent of their RHNA need which equates to approximately 870 units (City of Pomona 2019). Implementation of the project would contribute an additional 33 residential units and further assist the City in meeting RHNA requirements. Furthermore, the project does not include off-site improvements that would extend roadways or infrastructure into areas that do not currently support residential or other urban uses. Therefore, the project would have a less than significant impact.

[3] Project population percentage of GPU estimated growth: (127 project persons)/(23,498 GPU residents) = 0.5 percent

b. Would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

The project site is developed with a church and associated parking, recreation courts, and landscaped areas. The existing church buildings, paved areas, and landscaped areas would be demolished as part of the project to accommodate the proposed residential units. There are no residential structures or residents present on the project site; implementation of the project would not displace existing people or housing and housing would not need to be constructed to replace any buildings due to the project. Therefore, the project would have no impact.

Conclusion

Further environmental analysis is not required because:

1. No peculiar impacts to population and housing that are not substantially mitigated have been identified as a result of the project or its site. Application of the uniformly applied GPU policies substantially mitigates potentially significant impacts to a level of less than significant.
2. There are no potentially significant impacts to population and housing that were not analyzed as significant in the GPU EIR.
3. There are no potentially significant off-site and/or cumulative impacts that were not discussed by the GPU EIR.
4. No substantial new information has been identified that results in a population and housing impact that is more severe than anticipated by the GPU EIR.
5. The conclusion of the GPU EIR relating to Population and Housing found all impacts to be less than significant. There are no mitigation measures contained in the GPU EIR that apply to impacts to Population and Housing.

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15 Public Services

	Project Peculiar Impact that is not Substantially Mitigated by Uniformly Applied Policies	Significant Impact not Analyzed as Significant in the prior EIR	Potentially Significant Off-site or Cumulative Impact not Discussed in the prior EIR	Adverse Impact More Severe based on Substantial New Information	GPU EIR Mitigation Measures apply to this Project Yes	GPU EIR Mitigation Measures apply to this Project No
a. Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:						
Fire protection?	□	□	□	□	□	■
Police protection?	□	□	□	□	□	■
Schools?	□	□	□	□	□	■
Parks?	□	□	□	□	□	■
Other public facilities?	□	□	□	□	□	■

City of Pomona General Plan Update, Corridors Specific Plan, Active Transportation Plan, and Green Plan EIR Summary

The GPU EIR discusses impacts to public services on pages 4.11-1 through 4.11-18. Each of the following public services is discussed separately in the Public Services chapter:

Fire Protection

The Los Angeles County Fire Department (LACoFD) serves the city of Pomona, which is part of the LACoFD Division VIII. This also serves the neighboring cities of Diamond Bar, Walnut, Hacienda Heights, and Industry. There are 19 fire stations situated in these cities, eight of which are in Pomona. Resources in adjacent jurisdictions provide additional support as needed. LACoFD uses national guidelines of a five-minute response time for the first-arrival unit for fire and EMS responses; and eight minutes for the advanced life support unit in urban areas. The actual response time in 2011-2012 was four minutes and 49 seconds.

The GPU EIR states, “while fire and emergency medical service capacity is primarily based on service area, an increase in population could incrementally increase the number of service calls and could eventually necessitate the need for additional staff and possibly facilities” (City of Pomona 2013). LACoFD is currently meeting response time goals; new development facilitated by the GPU would be inside the existing city limits and the five-minute response zone. The GPU EIR concluded that adherence to General Plan policies would reduce potential land use conflicts between new or expanded fire facilities and surrounding uses, and if required, that new or expanded facilities would likely be located in existing urban areas of the city.

Police Protection

The Pomona Police Department (PPD) provides local police services for Pomona. The GPU EIR states that police protection services are not necessarily “facility-driven,” and an expansion or intensification of development in a police beat does not necessarily result in the need for additional

facilities if police officers and patrol vehicles are equipped with adequate telecommunications equipment that facilitate communication with police headquarters.

According to the GPU EIR, the PPD had 163 sworn officers and 106 civilian personnel in 2012. This represented a ratio of 1.1 officers per 1,000 residents, which was below the national average of 1.9 officers per 1,000 residents for cities with populations between 100,000 and 249,999 residents. Therefore, the PPD operated at staffing levels below the national average.

The GPU EIR concluded that, based on population growth estimates for the GPU, PPD would need to provide an additional 54 officers to maintain the 2012 ratio of 1.1 officers per 1,000 residents. An additional 213 officers would be needed to reach the national average. The GPU EIR includes the following GPU policies to address police protection services and to ensure impacts are less than significant:

- **Pomona General Plan Policy 7G.P11**, for the PPD to maintain a minimum standard of 1.3 police officers per 1,000 residents.
- **Pomona General Plan Policy 7G.P12**, to collect development impact fees for all development projects to help pay for needed police facilities.
- **Pomona General Plan Policy 7G.P14**, for the City and PPD to apply for state and federal grants to help increase police patrols and target gang activity.

Schools

Pomona is primarily served by the Pomona Unified School District (PUSD), with a small portion of the northern part of the city served by the Claremont Unified School District (CUSD). There are several higher education institutions in Pomona: California State Polytechnic University, Mount San Antonio Community College, and Western University of Health Science.

The GPU EIR uses student generation rates based on land use category to determine the impact of GPU on schools. These student generation rates were established by PUSD. Table 21 contains student generation rates that were presented in the GPU EIR.

Table 21 Student Generation Rates

	Generation Rates (per unit)		
Land Use Category	**Elementary**	**Middle School**	**High School**
Single-family Detached	0.31	0.15	0.21

Source: City of Pomona 2013

The GPU EIR states that implementation of the GPU would add an estimated 2,275 single-family dwelling units and 17,617 multi-family dwelling units in Pomona. Such an increase in dwelling units would increase enrollment in local schools serving Pomona. Table 22 shows the number of students that would be generated by development facilitated by the GPU using the generation rates shown in Table 21.

Table 22 Students Generated by GPU and Corridors Specific Plan Implementation

Land Use Category	Housing Units	Elementary	Middle School	High School	Total Students
Single-family Detached	2,275	705	341	478	1,524
Multi-family	17,617	1,762	881	1,409	4,052
Total	**19,892**	**2,467**	**1,222**	**1,887**	**5,576**

Source: City of Pomona 2013

According to the GPU EIR, PUSD has adequate educational facilities to house additional enrollment in elementary and middle schools generated by the GPU and Corridors Specific Plan implementation, and construction of additional elementary and middle schools in the PUSD is not anticipated to be necessary. However, additional high school enrollment facilitated by the GPU would exceed available high school capacity and construction of high school facilities may be needed. The GPU EIR states that payment of mandatory school impact fees by developers executing projects within the city, pursuant to California Government Code Section 65995 (3)(h), would reduce the impact on schools to less than significant.

Project-Specific Impacts

a. Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services?

The potential for the project to result in such impacts to public services is analyzed below for the following public services: fire protection, police protection, and schools. Section 16, *Recreation*, contains analysis of project impact on recreational resources. Section 19, *Utilities and Service Systems*, contains analysis of project impact on water, wastewater infrastructure, and solid waste collection and disposal. The GPU EIR did not contain discussion on other public services.

Fire Protection

LACoFD provides fire protection services to Pomona and the project site and has three fire stations near the project site:

- Fire Station 182 at 1059 North White Avenue, 0.4-mile northeast of the project site
- Fire Station 184 at 1980 West Orange Grove Avenue, is 1.1 miles southwest of the project site
- Fire Station 183 at 708 North San Antonio, is 1.8 miles northeast of the project site.

The project would result in up to 127 new residents, which is not beyond the population growth anticipated under the GPU EIR. The GPU EIR concluded that increases in population and intensification of development in Pomona facilitated by the GPU could result in the need for new or expanded fire facilities in the future. The project site is in an area already serviced by LACoFD, and the expected average emergency response time to the project site from the stations listed above is three minutes, below the national guideline of a five-minute response times for first-arriving units for fire and EMS (Bagwell 2020). Therefore, the project would not generate a need for new or expanded facilities to support fire protection and emergency response providers, and this impact would be less than significant.

Police Protection

The PPD is located at 490 West Mission Boulevard, approximately 1.7 miles north of the project site, which is within the southwest quadrant of the PPD's service area. The GPU EIR states that development facilitated by the GPU would increase demand for police protection services, which would exacerbate existing service ratio deficiencies, and could result in the need to construct new police facilities in the future.

According to the 2019 Crime Fighting Blueprint, the PPD has 169 sworn officers, 111 civilian employees, and 55 volunteers (Pomona Police Department 2019). The city's current estimated population is 154,675 residents (DOF 2020). Therefore, the current police protection service ratio is 1.09 sworn officers per 1,000 residents, which is below the GPU EIR's 2012 existing service level and the City's minimum standard of 1.3 officers per 1,000 residents. With the addition of up to 127 persons associated with project implementation, the total estimated population would increase to 154,802 residents and the police protection service ratio would remain at approximately 1.1 sworn officers per 1,000 residents. This would still be below the minimum standard of 1.3 officers per 1,000 residents.

Though police protection service ratios are below the City's minimum standard and the national average, the GPU EIR concludes that this impact would be less than significant with the collection of development impact fees from all development projects that would go toward paying for police facilities. The project applicant would be required to pay development impact fees. Furthermore, the PPD evaluates staffing needs continually, as growth occurs throughout the city. Funding for additional police service, including new staff, is obtained from the City's General Fund. Therefore, the project would have a less than significant impact.

Schools

The project site is within the service district of several elementary and middle schools and two high schools. These are detailed in Table 23.

Table 23 Schools near the Project Site

School	Address	Grades Served	Distance to Project Site
Roosevelt Elementary School	701 North Huntington Street	K-6	0.6 mile southeast
Arroyo Elementary School	1605 Arroyo Avenue	K-6	1.0 mile west
Marshall Middle School	1921 Arroyo Avenue	6-8	1.2 miles west
Cortez Mathematics and Science Magnet School	1300 North Dudley Street	K-8	1.0-mile northwest
Ganesha High School	1151 Fairplex Drive	9-12	1.6 miles northwest

Source: PUSD 2020

All these schools are in the PUSD. The GPU EIR provides student generation rates based on land use categories, which were established by PUSD. Table 24 shows the number of students that would be generated by the project based on the GPU EIR student generation rates (Table 21).

Table 24 Students Generated by Project

Land Use Category	Housing Units	Elementary	Middle School	High School	Total Students Generated
Single-Family Detached	33	10.23	4.95	6.93	22.11

Source: Adapted from City of Pomona 2013

The number of students generated by the project would account for less than one percent of the estimated number of additional students generated by GPU buildout conditions (Table 22). Therefore, project impact on schools would be less than the those found under the GPU EIR analysis. This means that PUSD would be able to accommodate additional student enrollment generated by the project, for elementary through high school, and existing facilities would be adequate. As stated in the GPU EIR, payment of mandatory school impact fees is required from the project applicant, pursuant to California Government Code Section 65995 (3)(h). Therefore, the project's impact on school facilities would be less than significant.

Conclusion

Further environmental analysis is not required because:

1. No peculiar impacts to public services that are not substantially mitigated have been identified as a result of the project or its site. Application of the uniformly applied GPU policies substantially mitigates potentially significant impacts to a level of less than significant.
2. There are no potentially significant impacts to public services that were not analyzed as significant in the GPU EIR.
3. There are no potentially significant off-site and/or cumulative impacts that were not discussed by the GPU EIR.
4. No substantial new information has been identified that results in an impact that is more severe than anticipated by the GPU EIR.
5. The conclusion of the GPU EIR relating to public services found all impacts to be less than significant. There are no mitigation measures contained in the GPU EIR that apply to impacts to Public Services.

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16 Recreation

	Project Peculiar Impact that is not Substantially Mitigated by Uniformly Applied Policies	Significant Impact not Analyzed as Significant in the prior EIR	Potentially Significant Off-site or Cumulative Impact not Discussed in the prior EIR	Adverse Impact More Severe based on Substantial New Information	GPU EIR Mitigation Measures apply to this Project Yes	No
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. Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	□	□	□	□	□	■

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The GPU EIR discusses recreational resource impacts on pages 4.12-1 through 4.12-13. As noted therein, in 2010, the City owned and operated 211 acres of developed park land, or about 1.4 acres per 1,000 residents. The GPU sets the target to provide three acres of active parkland per 1,000 residents; thus, the GPU EIR concludes that the current inventory of parks would not meet the City's target, and that development facilitated by the GPU would increase the population with a commensurate increased in demand for parks and recreation facilities. The GPU identifies approximately 368 acres of park land that could be developed to meet the City's parkland target. Funding for park improvements and additions would be available through fees collected under the Quimby Act and other funds and would be expected to keep pace with population growth as it occurs under implementation of the GPU. The following policies were included in the GPU to ensure this impact would be less than significant:

- **Pomona General Plan Policy 7C.P1**, to develop a master community parks layout to ensure parks accessibility for all neighborhoods.
- **Pomona General Plan Policy 7C.P4**, to revise developer impact fees to provide the capital necessary for the creation of new open space and improvements to existing open space.
- **Pomona General Plan Policy 7C.P11** is one of the many policies intended to help the City meet its parks, recreation, and open space goals by calling for the City to consider allowing in-lieu fee payments based on project site in higher intensity districts (such as North Pomona Center) or for small developments.

- **Pomona General Plan Policy 7C.P16**, to update the Citywide Parks Facilities Master Plan to identify needs and establish priorities for development of new parks, open spaces, and recreational and cultural facilities identified in the General Plan.

Project-Specific Impacts

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

According to the GPU, there are 221 acres of parks and open space in the city, a ratio of about 1.3 acres of parkland per 1,000 residents (City of Pomona 2014). The City has a goal of providing three acres of parkland per 1,000 residents and thus needs to increase its inventory to meet growing demand.

The Kiwanis Park (954 Weber Street) is 0.5 mile west of the project site and John F. Kennedy Park, at 1150 Fairplex Drive, is 1.7 miles east of the site. The Ganesha Community Center is at 1575 N. White Avenue, 0.9 mile northwest the project site, north of I-10, and the Palomares Park Community Center, at 499 East Arrow Highway, is 2.9 miles northeast of the project site. The project includes a shared open space within the development where a shared open space, covered barbeque area, and a "tot lot," or playground area would be placed.

The project would add up to 127 residents to the city population. Many of these residents would use local parks and recreational facilities in the vicinity of the project site and the open spaces nearby. According to the GPU EIR, approximately 381 new acres of parkland will be needed to meet the City's park standards through the 2024 planning horizon, based on anticipated population growth (City of Pomona 2013). The GPU EIR and General Plan identified 368 acres of land for development as additional parkland within city boundaries. Although the addition of residents would incrementally increase use of community and regional parks and recreation facilities, that increase would be within that anticipated by the GPU EIR and would not be expected to result in substantial physical deterioration of existing facilities. Furthermore, in accordance with the GPU and City ordinances, the project would also contribute its share of in-lieu fees to park development in areas throughout the city. These fees would contribute to the additional parkland anticipated in the GPU.

The GPU EIR found that even though the current park inventory is under the City's target of three acres for every 1,000 residents, development of park sites under GPU implementation would increase the acreage to meet existing population and expected growth. The project would comply with GPU policies and City ordinances that ensure the project would have a less than significant impact to the use of increased parks and associated deterioration.

b. Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

The project entails infill development of 33 residential units on a site along West Orange Grove Avenue currently developed with a church, associated buildings, and parking lot. As stated above, the project includes development of common open space and tot lot for use by residents, as well as private yards for residence owners. Population growth of up to 127 new residents associated with project implementation would be within the City's 2040 population growth estimate, as discussed in Section 14, *Population and Housing*. The project would also contribute its share of in-lieu fees that would go toward the production of new recreational uses. There is no identifiable physical impact to the environment unique to recreational resources. Furthermore, new recreation projects would undergo environmental evaluation and would be required to follow GPU policies and City ordinances on a project-by-project basis, as for any project. Therefore, the project would have a less than significant impact.

Conclusion

Further environmental analysis is not required because:

1. No peculiar impacts to recreational facilities that are not substantially mitigated have been identified because of the project or its site. Application of the uniformly applied GPU policies substantially mitigates potentially significant impacts to a level of less than significant.
2. There are no potentially significant impacts to recreational facilities that were not analyzed as significant in the GPU EIR.
3. There are no potentially significant off-site and/or cumulative impacts not discussed by the GPU EIR.
4. No substantial new information has been identified that results in a recreation impact that is more severe than anticipated by the GPU EIR.
5. The conclusion of the GPU EIR relating to Recreation found all impacts to be less than significant. There are no mitigation measures contained in the GPU EIR that apply to impacts to Recreation.

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17 Transportation

	Project Peculiar Impact that is not Substantially Mitigated by Uniformly Applied Policies	Significant Impact not Analyzed as Significant in the prior EIR	Potentially Significant Off-site or Cumulative Impact not Discussed in the prior EIR	Adverse Impact More Severe based on Substantial New Information	GPU EIR Mitigation Measures apply to this Project Yes	No
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, subdivision (b)?	□	□	□	□	□	■
c. Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	□	□	□	□	□	■
d. Result in inadequate emergency access?	□	□	□	□	□	■

City of Pomona General Plan Update, Corridors Specific Plan, Active Transportation Plan, and Green Plan EIR Summary

The GPU EIR discusses transportation/traffic impacts on pages 4.13-1 through 4.13-40. Impacts were assessed in the context of adopted planning documents and were based on the Traffic Impact Analysis (TIA) completed by Fehr & Peers (Appendix D of the GPU EIR 2013). The GPU EIR states that traffic generated as a result of development facilitated by the GPU would degrade operations at several intersections throughout the City and identified four mitigation measures related to improving traffic flow and refinement of the City's Truck Route Designation Map. These mitigation measures would ensure that transportation and traffic impacts from development under the GPU remain less than significant, with the exception of the Pomona Boulevard and Temple Avenue intersection and two freeway segments (I-10, west of Indian Hill Boulevard, and I-10 at Dudley Street), which would be significant and unavoidable. Furthermore, the GPU EIR concludes that because freeway facilities are controlled by Caltrans, the City cannot guarantee implementation of any capacity improvements to these segments.

The four GPU EIR mitigation measures, Mitigation Measures T-1 through T-4, required the following updates to the General Plan:

- Mitigation Measure T-1 calls for the addition of Figure 4.13-4 of the GPU EIR to the General Plan (Figure 7-D.11, Intersection Improvements), of which intersections #1 (Garey Avenue and Foothill Boulevard) and #2 (Garey Avenue and Arrow Highway) are within the traffic study area for the project. **Pomona General Plan Policy 7D.P16** was incorporated as a result

of Mitigation Measure T-1 to ensure future developers implement the improvements identified in GPU EIR Figure 4.13-4.

- Mitigation Measure T-2 states that the Active Transportation Plan will be updated to incorporate GPU EIR Figure 4.13-4 for the Garey Avenue/Arrow Highway and Garey Avenue/Philadelphia Street intersections.
- Mitigation Measure T-3 is recommended to assist in managing increased traffic in the Westmont Avenue segment as a result of completion of the SR 71 project, which is outside of the project area. As a result, **Pomona General Plan Policy 7D.P23** was incorporated, which works with the traffic calming measures listed under **Pomona General Plan Policy 7D.P22**.
- Mitigation Measure T-4 calls for an update of the City's designated truck routes. As a result, the segment of Bonita Avenue between Fulton Road and Carnegie Avenue would no longer be used a designated truck route. Figure 7-D.12, Future Truck Routes, of the General Plan indicates the designation changes from GPU EIR Mitigation Measure T-4.

The following GPU goals and policies were noted in the GPU EIR, to ensure development under the GPU would have a less than significant impact on transportation/traffic:

- **Pomona General Plan Goal 7D.G24**, to require new development or redevelopment to provide bicycle parking where appropriate and ensure it is located in safe, prominent locations.
- **Pomona General Plan Goal 7D.G26**, to align the amount of parking available and the amount of parking provide by new development with the real pattern of anticipated parking demand.
- **Pomona General Plan Policy 7D.P10**, to require proposed development to implement or fund capital improvements to 1) maintain sidewalks, roadway paving, and landscaping 2) implement streetscape design improvements, and 3) accommodate growth with an emphasis on reduced reliance on the automobile.
- **Pomona General Plan Policy 7D.P11**, to investigate the feasibility of creating a special assessment district or value sharing arrangement to fund capital improvements related to traffic calming, active transportation, and transit.
- **Pomona General Plan Policy 7D.P18**, to ensure new developments provide an integrated pattern of streets and pedestrian paths that provide connections between neighborhood, and establish street connectivity that discourages gated entrances, provides street and pedestrian connection to adjacent areas to enable efficient movement throughout the City, aligns streets with existing arterials and collector streets in adjacent areas, and limits block lengths to no more than 500 feet and encourages four-way intersections.
- **Pomona General Plan Policy 7D.P33**, to require site designs that complement transit stops and pedestrian linkages nearby.
- **Pomona General Plan Policy 7D.P35**, to identify ways to improve vehicular and pedestrian access to the North Pomona Metrolink Station.
- **Pomona General Plan Policy 7D.P67**, to reduce parking requirements for mixed-use developments and for developments providing shared parking or a TDM program.

- **Pomona General Plan Policy 7D.P68**, to revise parking standards to encourage and facilitate alternative transportation modes by reducing parking standards for mixed-use and transit oriented developments, reducing parking space footprints by accommodating a variety of vehicles, providing preferential parking for those who carpool, and the provision of bicycle parking for large developments.

It was determined in the GPU EIR that implementation of the GPU would not interfere with or alter air traffic patterns in or near Pomona, as there are no airports in the City. Therefore, any changes to air traffic patterns would be less than significant.

The GPU EIR states that implementation of the GPU would not substantially increase hazards due to design features or incompatible uses due to the programmatic natures of the plans. Adherence to the City's design standards and GPU policies would ensure future facilities improve safety for applicable modes of transportation. Likewise, implementation of the GPU would not result in inadequate emergency access as these two plans do not inherently represent project-specific components. Projects processed under the GPU would be required to meet all applicable local and state regulatory standards for adequate emergency access (including the Uniform Building Code, California Building Code, Uniform Fire Code, and applicable Municipal Code and Fire Code requirements). Therefore, impacts to design hazards and emergency access were determined to be less than significant.

Implementation of the GPU would be expected to enhance alternative transportation. The GPU includes a range of policies aimed at enhancement of neighborhood connectivity for bicycles, pedestrians, and neighborhood electric vehicles. In addition, the GPU EIR states that the City will consider reducing parking ratios and promoting alternative transportation demand management tools, especially in TOD districts. Therefore, impacts to alternative transportation would be less than significant.

Project-Specific Impacts

a. Would the project conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?

The project site and surrounding area are served by pedestrian and public transit facilities. The pedestrian network in the vicinity of the project site consists of crosswalks, pedestrian crossing, and sidewalks. Sidewalks exist along both sides of Orange Grove Avenue.

The Foothill Transit bus lines, accessible from the project site, are operated by the Joint Powers Authority of 22 member cities and the County of Los Angeles, of which Pomona is a governing board member. The project site is currently served by Foothill Transit Route 197 along Orange Grove Avenue. The nearest existing transit stops are located at the adjacent intersections of Lewis Street/Orange Grove Avenue (700 feet west of the project site) and Hamilton Boulevard/Orange Grove Avenue (1,000 feet east of the project site).

Dedicated Class II bicycle lanes are proposed along Orange Grove Avenue. The portion of Hamilton Boulevard north of Orange Grove Avenue is a proposed Class III bicycle route and a dedicated Class II bicycle lanes are proposed for the portion of Hamilton Boulevard south of Orange Grove Avenue.

The construction of the proposed single-family residences would not result in any changes to the lane or street configuration of Orange Grove Avenue or existing streets in the vicinity of the project

site, or to existing bus and transit facilities that could affect service, access, or safety. Therefore, this project impact would have a less than significant impact on transit, bicycle, and pedestrian facilities.

The project-specific analysis is based on the Traffic Impact Analysis (TIA) prepared for the project by Ganddini Group, Inc. (Ganddini), dated November 2020 (Appendix G).

A total of five study intersections were analyzed using the intersection delay methodology, which is based on the procedures contained in the Highway Capacity Manual (HCM). The methodology considers the traffic volume and distribution of movements, traffic composition, geometric characteristics, and signalization details to calculate the average control delay per vehicle and corresponding Level of Service (LOS). Control delay is defined as the portion of delay attributed to the intersection traffic control (such as a traffic signal or stop sign) and includes initial deceleration, queue move-up time, stopped delay, and final acceleration delay. Intersection LOS is used to qualitatively describe the performance of a roadway facility, ranging from LOS A (free-flow conditions) to LOS F (extreme congestion and system failure). LOS D is considered the minimum acceptable LOS for City intersections (Ganddini Group, Inc. 2020).

Based on the performance standards established by the City of Pomona, a potentially significant LOS impact is defined to occur if:

- Signalized Intersections:
  - Any study intersection that is operating at a LOS 'A,' 'B,' 'C,' or 'D' for any study scenario without project traffic in which the addition of project traffic causes the intersection to degrade to a LOS 'E' or 'F' shall mitigate that impact so as to bring the intersection back to at least LOS 'D.'
  - Any study intersection that is operating at LOS 'E' or 'F' for any study scenario without project traffic shall mitigate any impacts so as to bring the intersection back to the overall level of delay established prior to project traffic being added.
- Unsignalized Intersections: An impact is considered significant if the study determines that either section a) or both sections b) and c) occur:
  a) The addition of project related traffic causes the intersection to move from a LOS 'D' or better to a LOS 'E' or worse; or,
  b) The project contributes additional traffic to an intersection that is already projected to operate at an LOS 'E' or 'F' with background traffic; and,
  c) One or both of the following conditions are met:
     1. The project adds 10 or more trips to any approach
     2. The intersection meets the peak hour traffic signal warrant after the addition of project traffic

The relative impact of the added project traffic volumes generated by the project during the weekday AM and PM peak hours was evaluated based on analysis of existing conditions, and future operating conditions (Opening Year 2023) at the following listed five study intersections, without and with project. The following intersections, all located within the City of Pomona jurisdiction, were selected for analysis because they are most likely to be affected by the project:

- Weber Street at Orange Grove Avenue
- Lewis Street at Orange Grove Avenue
- Hamilton Boulevard at Orange Grove Avenue

- Project West Driveway at Orange Grove Avenue
- Project East Driveway at Orange Grove Avenue

To analyze the project's traffic impacts, trip generation for the project was estimated using trip generation rates for single-family detached housing (Institute of Transportation Engineers [ITE] Land Use Code 210) provided in the Trip Generation Manual, 10th Edition (Ganddini Group, Inc. 2020). According to the TIA, the project would generate a total of approximately 312 daily trips, including 24 trips during the AM peak hour and 33 trips during the PM peak hour. Detailed intersection LOS analyses and calculation worksheets for each of the five study intersections are provided in the TIA (Ganddini Group, Inc. 2020).

The study intersections currently operate within acceptable LOS (D or better) during AM and PM peak hours for existing conditions (Ganddini Group, Inc. 2020). According to the TIA and as summarized in Table 25, all study intersections are forecast to operate within acceptable LOS (D or better) during the peak hours for Existing Plus Project and Opening Year (2023) With Project conditions. Therefore, the project is forecast to result in no significant impact.

Table 25 "Existing" and "Opening Year (2023) Plus Project" Levels of Service

		Existing LOS[2]				Opening Year (2023) Plus Project LOS						
		AM Peak		PM Peak		AM Peak		PM Peak		Change		
Intersection	Traffic Control[1]	Delay[3]	LOS	Delay	LOS	Delay	LOS	Delay	LOS	AM Peak	PM Peak	Impact
Weber Street at Orange Grove Avenue	TS	7.0	A	6.4	A	7.0	A	6.5	A	0	+0.1	No Impact
Lewis Street at Orange Grove Avenue	CSS	15.8	C	16.6	C	16.9	C	17.9	C	+1.1	+1.3	No Impact
Hamilton Boulevard at Orange Grove Avenue	TS	10.7	B	10.5	B	11.0	B	11.2	B	+0.3	+0.7	No Impact
Project West Driveway at Orange Grove Avenue[4]	CSS	NA	NA	NA	NA	15.5	C	20.2	C	NA	NA	No Impact
Project East Driveway at Orange Grove Avenue[4]	CSS	NA	NA	NA	NA	15.5	C	20.4	C	NA	NA	No Impact

[1] TS = Traffic Signal; CSS = Cross Street Stop

[2] LOS = Level of Service

[3] Delay is shown in seconds/vehicle. For intersections with traffic signal or all way stop control, overall average intersection delay and LOS are shown. For intersections with cross street stop control, LOS is based on average delay of the worse individual land (or movements sharing a lane).

[4] Project West and East Driveways at Orange Grove Avenue are new driveways to be implemented, as shown in the project site plans (Appendix A). Therefore, existing LOS for these study intersections are NA = Not Applicable. As shown above, proposed driveway intersections would operate at an LOS C during AM and PM peak hours, which is acceptable pursuant to City of Pomona thresholds.

Source: Adapted from Ganddini Group, Inc. 2020

b. Would the project conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b)?

An initial vehicle miles traveled (VMT) screening analysis was performed using the San Gabriel Valley Council of Governments (SGVCOG) VMT Evaluation Tool to assess whether the project may be presumed to result in a less than significant VMT impact based on screening criteria established by SGVCOG member cities, which includes the City of Pomona. In accordance with the City's VMT guidelines, a project would result in a significant VMT impact if either of the following conditions are satisfied:

- If the VMT rate generated by the project exceeds a level of 15 percent below the SGVCOG Southeast Subarea baseline VMT rate for the traffic analysis zone where the project is located; and,
- The project results in a higher future VMT rate for the City than the future No Project scenario.

The project satisfies the VMT screening criteria for projects located in low VMT-generating areas according to the SGVCOG VMT Evaluation Tool (Ganddini Group, Inc. 2020). Therefore, the project would result in a less than significant impact regarding VMT and no further analysis is required.

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

The GPU EIR determined that the roadway network changes proposed as part of the GPU did not include any identified hazardous design features, and that the GPU would not incorporate any design features that could increase traffic hazards.

As shown on the project site plans (Appendix A), vehicular access to the project site would be located at two driveways, both along Orange Grove Avenue. Both project driveways would contain two lanes (for ingress and egress), and provide full access to the project site. The project includes an on-site street for vehicular circulation and designated pedestrian sidewalks which would provide access to the proposed residences, outdoor common area, and visitor parking spaces. The existing curb cuts along Orange Grove Avenue would be adjusted and realigned to ensure roadway visibility, pedestrian safety, and access between the project site and Orange Grove Avenue. The project does not include any other off-site improvements to existing roads, and the proposed driveways, vehicular circulation, and designated pedestrian sidewalks do not contain any design features that would increase transportation and mobility hazards for project residents or off-site traffic. Designated vehicular circulation areas and pedestrian sidewalks on-site would be compatible with existing residential uses in the vicinity of the project site, and most frequently used by project residents. The project does not include any modifications to the existing off-site transportation network that would result in potential transportation hazards not anticipated in the GPU EIR. Therefore, the project would have a less than significant impact.

d. Would the project result in adequate emergency access?

The project would not involve off-site improvements to travel lanes of public streets or modify any existing emergency access route in a way that would result in inadequate emergency access. Proposed vehicle circulation on the project site would provide adequate width and turn radius for emergency vehicles, and project site plans would be reviewed and approved by LACoFD prior to construction. Therefore, the project's potential impacts related to emergency access would be less than significant.

Conclusion

Further environmental analysis is not required because:

1. No peculiar impacts that are not substantially mitigated have been identified as a result of the project or its site. Application of the uniformly applied GPU policies substantially mitigates potentially significant impacts to a level of less than significant.
2. There are no potentially significant impacts that were not analyzed as significant in the GPU EIR.
3. There are no potentially significant off-site and/or cumulative impacts that were not discussed by the GPU EIR.
4. No substantial new information has been identified that results in an impact that is more severe than anticipated by the GPU EIR.
5. The GPU EIR included four mitigation measures to address impacts to Transportation and Traffic. These mitigation measures were incorporated into the GPU policies. Implementation of GPU Policy 7D.P16 would ensure potential project impacts to Transportation and Traffic would be less than significant. No additional mitigation measures contained in the GPU EIR apply to impacts to Transportation and Traffic.

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18 Tribal Cultural Resources

	Project Peculiar Impact that is not Substantially Mitigated by Uniformly Applied Policies	Significant Impact not Analyzed as Significant in the prior EIR	Potentially Significant Off-site or Cumulative Impact not Discussed in the prior EIR	Adverse Impact More Severe based on Substantial New Information	GPU EIR Mitigation Measures apply to this Project Yes	No
Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in a 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), or	□	□	□	□	□	■
b. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 2024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significant of the resource to a California Native American tribe.	□	□	□	□	□	■

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The GPU EIR discusses cultural resource impacts, including potential impacts to tribal resources, on pages 4.4-1 through 4.4-24. Pomona has a long cultural history and is known to have been home to Native American groups prior to settlement by Euro-Americans. Therefore, the presence of subsurface archaeological, paleontological, and human remains may be present, and subject to direct or indirect effects of ground-disturbance activities associated with 2035 buildout under the GPU. The GPU EIR concludes that impacts to archaeological and paleontological resources or human remains would be a less than significant impact with GPU EIR Mitigation Measure CUL-2 incorporated (Policy 7F.P39).

Pursuant to the requirements of SB 18, the City notified six Native American tribes of the proposed GPU and accompanying plans. No requests for consultation were received (page 4.4-18 of the GPU EIR). The GPU EIR includes the following GPU policies to ensure project impacts to tribal cultural resources would be less than significant:

- **Pomona General Plan Policy 7F.P36**, to require consultation with California Native American tribes prior to the adoption or amendment of the General Plan or Specific Plans for the purpose of preserving, or mitigating impacts to, cultural places located on land within the City's jurisdiction that may be affected by the proposed Plan adoption or amendment, per SB 18.
- **Pomona General Plan Policy 7F.P39**, to require that for proposed developments with the potential to adversely impact cultural resources, notification be sent to cultural organizations, including Native American organizations (adopted into the General Plan based on Mitigation Measure CUL-2).

Therefore, Native American outreach procedures were completed by the City for GPU areas. The GPU EIR concludes that implementation of the GPU policies would ensure impacts to archaeological and Native American cultural resources would be less than significant.

Project-Specific Impacts

a. Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in a 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 listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k), or,

b. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 2024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significant of the resource to a California Native American tribe.

As discussed in the GPU EIR, archaeological and tribal cultural materials associated with occupation of the City are known to exist throughout the City and have the potential to provide important scientific information regarding history and prehistory. The GPU EIR identified impacts to unrecorded subsurface cultural resources as less than significant with mitigation incorporated.

As discussed in Section 5, *Cultural Resources*, the project site was used as an orange grove since the late 1800s, and then developed for residential use in the 1920s until it was purchased by the Pomona Fellowship Church of the Brethren in 1949 (BCR Consulting, LLC 2020). The project site is fully developed and within an urbanized area, and the proposed residential use and development are consistent with the City's GPU and existing land use designation. The field survey and records review indicate that there are no significant archaeological resources located within the project site. No archaeological resources were identified within a one-mile radius of the project site, and the site was determined to have low sensitive for significant buried archaeological remains based on its past uses as an orange grove prior to development and use as a private residence and church facilities (BCR Consulting, LLC 2020).

Therefore, no tribal consultation was warranted since there is no evidence to suggest that the project site is sensitive for tribal cultural resources based on prior uses and existing development, disturbance, and existing conditions on the project site and vicinity. Furthermore, implementation of the project would be consistent with existing General Plan land use and zoning designations. The

project would not require a General Plan or zoning amendment based on the proposed residential use.

Though unanticipated, project construction activities (such as excavation, grading, and site preparation) have the potential to impact previously unidentified tribal cultural resources. Potentially significant impacts would occur if the implementation of the project would result in construction activities that would damage previously unidentified significant tribal cultural resources. The project would comply with the City's standard conditions pertaining to tribal cultural resources should such resources, previously unknown, be encountered during ground disturbing construction activities. The City's standard conditions include procedures to halt work until found resources are appropriately handled, assessed, and/or recorded by qualified personnel to prevent damage to found resources. Therefore, the project would have a less than significant impact on tribal cultural resources.

Conclusion

Further environmental analysis is not required because:

1. No peculiar impacts to tribal cultural resources that are not substantially mitigated have been identified as a result of the project or its site. Application of the uniformly applied GPU policies substantially mitigate potentially significant impacts to a level of less than significant.
2. There are no potentially significant impacts to tribal cultural resources that were not analyzed as significant in the GPU EIR.
3. There are no potentially significant off-site and/or cumulative impacts that were not discussed by the GPU EIR.
4. No substantial new information has been identified that results in a tribal cultural resource impact that is more severe than anticipated by the GPU EIR.
5. The conclusion of the GPU EIR relating to Tribal Cultural Resources found all impacts to be less than significant with the incorporation of Mitigation Measure CUL-2. Mitigation Measure CUL-2 was incorporated into the GPU as Policy 7F.P39. No additional mitigation measures contained in the GPU EIR apply to impacts to Tribal Cultural Resources.

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19 Utilities and Service Systems

	Project Peculiar Impact that is not Substantially Mitigated by Uniformly Applied Policies	Significant Impact not Analyzed as Significant in the prior EIR	Potentially Significant Off-site or Cumulative Impact not Discussed in the prior EIR	Adverse Impact More Severe based on Substantial New Information	GPU EIR Mitigation Measures apply to this Project Yes	No
Would the project:						
a. Require or result in the construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction 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 which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	□	□	□	□	□	■
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?	□	□	□	□	□	■

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The GPU EIR discusses impacts on utilities and service systems on pages 4.14-1 through 4.14-20. This discussion addresses the issues of water supply, wastewater, and solid waste and recycling.

Water Supply

The City's Public Works Department provides water service for Pomona. Approximately 68 percent of the City's water is supplied from groundwater sources. Imported water from the Metropolitan Water District of Southern California via the Three Valleys Municipal Water District makes up 16 percent of the City's supply, 15 percent from local surface water from the San Antonio and Evey Canyon watersheds, and the remaining one percent from recycled water that is non-potable.

The City's 2010 Urban Water Management Plan (UWMP) concludes there will be adequate water supply, with normal conservation efforts, to meet demand through 2035 in average year, single dry year, and multiple dry year scenarios. According to the GPU EIR, development facilitated by the GPU is expected to increase the city's population to 197,400 by 2035, in line with SCAG growth forecasts for Pomona. The 2010 UWMP anticipates the service population to be 216,899 in 2035, which is 19,500 people more than the population increase anticipated in the GPU EIR (216,899 – 197,400 = 19,499). Therefore, the GPU EIR concludes that water supplies would be adequate to serve population growth facilitated by the GPU and that impact on water supply would be less than significant.

Wastewater

The City's Public Works Department provides wastewater service in Pomona. The Pomona Water Reclamation Plant (PWRP) treats and disposes of wastewater from the City's system, under the operation of the Los Angeles County Sanitation District. Sewage effluent from the neighboring cities of La Verne and Claremont is also treated at the PWRP, which has a design capacity of 15 million gallons per day (mgd). In 2012, the average daily flow to the plant was approximately 8.4 mgd, leaving approximately 6.6 mgd in available capacity. Though implementation of the GPU would result in an increase in wastewater generation, maximum wastewater generation from GPU implementation was estimated at 3.1 mgd. The GPU EIR concludes the PWRP has capacity to accommodate the additional wastewater through the existing treatment infrastructure and that expansion would not be required. The GPU EIR specifies adherence to Pomona General Plan Policy 7E.P33, which requires all new development or expansion of existing facilities bear the cost of expanding the wastewater disposal system to handle the increased loads anticipated by development, to ensure GPU impacts are less than significant. Therefore, project impact on wastewater treatment facilities associated with increased growth in the city would be less than significant.

Stormwater Runoff

As discussed in the GPU EIR, new development under GPU implementation would continue to comply with all provisions of the NPDES program, as enforced by the RWQCB, discussed in Section 10, *Hydrology and Water Quality*. The GPU EIR states future projects under the GPU would be required to comply with all applicable wastewater discharge requirements issued by the SWRCB and RWQCB. Therefore, implementation of the GPU would not violate applicable wastewater treatment requirements of the RWQCB with respect to discharges to the sewer system or stormwater system in Pomona.

Solid Waste and Recycling

The City's Public Works Department provides trash, recycling, and special pickup services for residents. Waste is collected by franchise commercial waste haulers and conveyed to the West Valley Materials Recovery Facility in Fontana and the Athens Services Materials Recovery Facility in the City of Industry. Four landfills serve Pomona (Puente Hills, Olinda Alpha, El Sobrante, and Mid-Valley Sanitary), with a combined estimated available daily capacity of 33,823 tons per day. Implementation of the GPU would generate approximately 177 tons of solid waste per day. Therefore, the landfills that serve Pomona were determined to have capacity to accommodate the additional waste. Furthermore, based on the City's 2011 waste diversion rate of 70.4 percent, actual solid waste disposal resulting from the GPU EIR would be approximately 54 tons/day. The GPU EIR concludes that impact on waste management and recycling would be less than significant.

Project-Specific Impacts

a. Would the project require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?

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

Water Supply

The GPU EIR demonstrates that anticipated water demand in this area has been accounted for in the City's 2010 UWMP and that development occurring under the GPU would not require any changes in existing water supplies. Because the project would be within the maximum buildout as anticipated under the GPU EIR, it is not anticipated that the City would need new or expanded entitlements to serve the project. The City reviewed the existing water and sewer infrastructure in the project area and concluded that the City would be responsible to provide water and wastewater service for the project.

According to the 2015 UWMP, the 2015 water demand for the city was an estimated 22,611 acre-feet per year (AFY), or approximately 20.2 million mgd. The City's water demand is forecast to increase to 28,125 AFY, or approximately 25 mgd (City of Pomona 2016). According to CalEEMod results (included in Appendix B), the project would result in a water demand of 3.8 million gallons per year, or approximately 10,486 gallons per day. Therefore, the project's water demand of 10,486 gallons per day would account for approximately 0.2 percent of the forecast water demand increase of 4.8 mgd between 2015 and 2035. Furthermore, Pomona's water supply reliability analysis concluded that water supplies will exceed demands under all hydrologic scenarios with the implementation of additional supplies from recycled water and treated groundwater, more water efficient equipment, and conservation measures. Therefore, existing water infrastructure and supplies would be adequate to serve the anticipated residents of the project, and the project's impact on water supply would be less than significant.

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

The PWRP has approximately 6.6 mgd capacity to accommodate additional wastewater from projects resulting from the GPU and CSP. The project applicant would be required to bear the cost of expanding the wastewater disposal system if existing systems on the project are inadequate for conveying anticipated wastewater generated by residents of the project. Conservatively assuming that wastewater generation is 100 percent of water demand, the project would generate an estimated 10,486 gallons of wastewater per day (Appendix B), which is approximately 0.2 percent of the PWRP's 6.6 mgd capacity. Therefore, existing wastewater infrastructure would be adequate to serve the anticipated residents of the proposed building, and the project's impact on wastewater systems would be less than significant.

As discussed in Section 10, *Hydrology and Water Quality*, the project, as designed, would not increase the amount of impervious surface on the project site since the project site is completed developed. Rather, the amount of pervious surfaces may increase as a result of the project, based on project site plans that indicate the implementation of front and side yards for the proposed residences and landscaped outdoor common area for residential use. Project construction activities would implement BMPs to prevent substantial erosion or siltation on- or off-site (to be identified in a project-specific SWPPP), and the project site would be fully developed with no bare dirt left exposed (Appendix A). The project would include drainage improvements on the project site and for off-site drainage and sewer connections. Therefore, the project would not require the construction of new or expanded off-site facilities for stormwater drainage and would have a less than significant impact related to stormwater runoff.

d. Would the project 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. Would the project comply with federal, State, and local management and reduction statutes and regulations related to solid waste?

The four landfills that serve Pomona have sufficient capacity to accommodate solid waste from full buildout under the GPU, according to the GPU EIR. Diversion of solid waste from the project site into the recycling stream would substantially reduce the project's impact on landfill capacity.

According to CalEEMod results for the project (Appendix B), the project would generate approximately 52.09 tons of solid waste per year, or approximately 0.14 tons per day. This represents less than 0.001 percent of the estimated available daily capacity at the four landfills that serve the City (33,823 tons) and less than 0.08 percent of the 177 tons of waste anticipated to be generated from projects implemented under the GPU. Assuming the City's 2011 waste diversion rate of 70.4 percent applies to waste generated from the project, the project would generate approximately 0.04 tons of solid waste per day, which would account for approximately 0.007 percent of the 54 tons of waste resulting from projects implemented under the GPU. Therefore, the project would not result in greater impacts on landfill capacity or regulatory compliance related to solid waste than anticipated in the GPU EIR, and project impact on solid waste and recycling would be less than significant.

Conclusion

Further environmental analysis is not required because:

1. No peculiar impacts that are not substantially mitigated have been identified as a result of the project or its site. Application of the uniformly applied GPU policies substantially mitigates potentially significant impacts to a level of less than significant.
2. There are no potentially significant impacts that were not analyzed as significant in the GPU EIR.
3. There are no potentially significant off-site and/or cumulative impacts that were not discussed by the GPU EIR.
4. No substantial new information has been identified that results in an impact that is more severe than anticipated by the GPU EIR.
5. The conclusion of the GPU EIR relating to Utilities and Service Systems found all impacts to be less than significant. There are no mitigation measures contained in the GPU EIR that apply to impacts to Utilities and Service Systems.

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20 Wildfire

	Project Peculiar Impact that is not Substantially Mitigated by Uniformly Applied Policies	Significant Impact not Analyzed as Significant in the prior EIR	Potentially Significant Off-site or Cumulative Impact not Discussed in the prior EIR	Adverse Impact More Severe based on Substantial New Information	GPU EIR Mitigation Measures apply to this Project 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 or maintenance 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?	□	□	□	□	□	■

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The GPU EIR discusses wildfire impacts on pages 4.6-29 and 4.6-30 and states that parts of Pomona are susceptible to wildland fires due to its hilly terrain, dry weather conditions, and plant cover, with high fire risk areas located in mountainous areas, particularly in the southwestern corner of the city (by Phillips Ranch, Lanterman Center, and Cal Poly Pomona areas). Implementation of the GPU could lead to an increase in residential or commercial development in areas that are susceptible to

wildland fires. Adherence to the following General Plan Policies was determined to reduce fire hazards to less than significant impacts:

- **Pomona General Plan Policy 7G.P20**, to require site design features, fire retardant building materials, and adequate access as conditions for approval of development or improvements to reduce the risk of fire in the city. As such, new construction is required to meet requirements of the most recent International Building Code and California Title 24 Codes.
- **Pomona General Plan Policy 7G.P21**, to require new wood and wood shake roofing materials to be a minimum of class B rated material, requires fire-resistant materials for re-roofing projects, and requires tile roof material rated for high or very high fire threat areas.
- **Pomona General Plan Policy 7G.P22**, which states that the City will consider future access and water supply infrastructure improvements, particularly in areas identified as high or very high fire threat areas.
- **Pomona General Plan Policy 7G.P23**, to require the City to develop a fire-resistant landscape program in coordination with homeowners associations throughout the city, specifically those communities located in high or very high fire threat areas.
- **Pomona General Plan Policies 7G.P24 and 7G.P25**, which pertain to weed abatement and brush clearance programs and maintenance of low residential densities in wildfire hazard areas.

According to the GPU EIR, Mitigation Measure HAZ-1 would apply to the GPU area to ensure hazardous impacts are less than significant. All components of Mitigation Measure HAZ-1 were incorporated into the GPU as the following additional policies:

- **Pomona General Plan Policy 6C.P10**, for the City to maintain consistency with the Los Angeles County Airport Land Use Compatibility Plan [once adopted] as it pertains to Brackett Field.
- **Pomona General Plan Policy 7G.P54**, for the City to coordinate disaster preparedness and emergency response with appropriate agencies, including the Pomona Police Department, Los Angeles County Fire Department, Los Angeles County Airport Land Use Commission, Brackett Field operators and emergency response providers, and neighboring cities.
- **Pomona General Plan Policy 7G.P55**, to ensure that land uses, densities, and building heights in Airport Land Use Compatibility Zones are compatible with safe operation of Brackett Field.
- **Pomona General Plan Policy 7G.P56**, to review and update City procedures for responding to airport and aircraft related emergencies.

The GPU EIR concluded that impacts associated with wildfires would be less than significant following implementation of General Plan goals and policies stated above, and implementation of the additional policies from Mitigation Measure HAZ-1.

Project-Specific Impacts

a. Would the project substantially impair an adopted emergency response plan or emergency evacuation plan?

b. Would the project, 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. Would the project require the installation or maintenance 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. Would the project 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?

As stated in Section 9, *Hazards and Hazardous Materials*, the project would increase traffic around the project site and vicinity due to the addition of up to 127 residents. However, the project would not result in any changes to the existing street network that could impede emergency access or evacuation. The GPU EIR includes updates for several General Plan policies pertaining to disaster preparedness and emergency response and concludes that implementation of updated policies associated with emergency response and evacuation in the city would result in a less than significant impact. The project would not inhibit the implementation of adopted citywide emergency response or evacuation plans.

The project site is relatively flat and is within an urbanized area in the northern portion of the city; as such, there are no wildlands in the vicinity of the project site. As stated in the GPU EIR, the southwestern corner of the city is particularly susceptible to wildfires. The project site and vicinity are not identified as a Very High Fire Hazard Severity Zone by CALFIRE (CalOES 2015). Implementation of the project would not significantly increase exposure of people or structures to a significant risk of loss, injury, or death involving wildfires. The project would not require installation or maintenance of associated infrastructures to prevent wildfires. Existing project site topography would not expose people or structures to subsequent downstream flooding or landslides resulting from wildfires. Therefore, the project would have a less than significant impact.

Conclusion

Further environmental analysis is not required because:

1. No peculiar impacts from wildfires that are not substantially mitigated have been identified as a result of the project or its site. Application of the uniformly applied GPU policies substantially mitigates potentially significant impacts to a level of less than significant.
2. There are no potentially significant impacts from wildfires that were not analyzed as significant in the GPU EIR.
3. There are no potentially significant off-site and/or cumulative impacts that were not discussed by the GPU EIR.
4. No substantial new information has been identified that results in a wildfire impact that is more severe than anticipated by the GPU EIR.

5. The conclusion of the GPU EIR relating to Hazards and Hazardous Materials found all impacts to be less than significant with the incorporation of Mitigation Measure HAZ-1. Mitigation Measure HAZ-1 was incorporated into the GPU as Policies 6C.P10, 7G.P54, 7G.P55, and 7G.P56. No additional mitigation measures contained in the GPU EIR apply to impacts to Hazards and Hazardous Materials.

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List of Preparers

Rincon Consultants, Inc. prepared this Community Plan Exemption Initial Study Checklist under contract to the City of Pomona. Vinny Tam, MURP, AICP is the Senior Planner for the City of Pomona and oversaw the project planning efforts. Persons involved in data gathering analysis, project management, and quality control include the following.

Rincon Consultants

Deanna Hansen, Principal in Charge
Charles Holcombe, MBA, Supervising Planner
Lynette Leighton, MEM, AICP, Senior Planner
Bill Vosti, MESM, Senior Planner
April Durham, PhD, Environmental Planner
Jacob Cisneros, Sustainability Associate

Ganddini Group, Inc.

Giancarlo Ganddini, PE, PTP, Principal
Brandon Alvarado, EIT, Transportation Planner

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Appendix A

Project Plans

2nd Submittal - September 14, 2020

Tract 83141 - Development Review Submittal Application

APN: 8358-009-006 & 009

Development Standards Compliance Chart			
Item	Zone	tract 83141	Remarks
A. Intent and Purpose	R-1-6,000 and PD Overlay District	In Compliance	33 Single Family Detached Residential Units
B. Permitted Uses	Residential	In Compliance	33 Single Family Detached Residential Units
C. Development Standards			
1. Site Area	Min. 1 Acres	In Compliance	The site is 3.60 Acres
2. Lot Area	Min. 4,500 SF	In Compliance	1 proposed at 156,816 SF
3. Unit Size	Min. 1,200 SF	In Compliance	Proposed units 1,687 to 1,955 SF
4. Building Coverage	Max. 30%	In Compliance	Proposed building coverage 26%
5. Building Height	Max. 35'	In Compliance	Proposed 27.79' max.
6. Set Backs			
6a.	5' Min. Perimeter set back when adjacent to existing public street	In Compliance	Min. 11' set back provided
6b.	Front Yard set back 18' Min. to garage & 15' to building or porch	In Compliance	A Min. of 18' to the garage & 15' to building and porch has been provide
6c.	5' Min. side yard	In Compliance	A Min. of 5' has been provide for each side yard
6d.	20' Min. rear yard set back	Minor Deviation Variance and a Variance are needed	The rear yard set backs of Lots 10-14 are less than 20'
7. Open Space			
7a.	Min. of 200 SF of private open space	In Compliance	An average of 1,047 SF of open space per lot has been provided
7b.	2.5% Min of common open space	In Compliance	9% of 14,150 SF of common open space has been provided
8. Parking			
8a.	Min. 2 covered parking spaces required	In Compliance	66 covered garage spaces have been provided
8a	9 guest parking spaced required for 33 single family detached	In Compliance	17 guest parking spaces have been provided
9. Streets	28' Min. Street width to accommodate quest parking	Variance is needed	2 additional quest parking spaces have been provided in the driveway of each residence for a total of 66
10. Pedestrian Circulation	Min. 3' wide sidewalk required on both side of the street	In Compliance	A min. 4' wide sidewalk has been provided on both side of the street
11. Architectural Style	Roof overhangs, roof material, roof pitch, siding material, grade siting, foundation &exterior siding materials	In Compliance	The architectural drawings have been designed to meet the architectural style requirements of section 0.229.7L
12. Wall & Fencing	Masonry Block Walls required	In Compliance	Min. 5'-6" interior masonry block walls and Min. 6'-0" perimeter walls have been provided
13. Landscaping	Min. 20% of entire parcel shall be fully landscaped	In Compliance	35,315 SF or 22.5% of project shall be fully landscaped

PROJECT SUMMARY INFORMATION

PROJECT AREA	3.60 ACRES
EXISTING ZONING:	R-1-6,000 /
PROPOSED ZONING:	PLANNED DEVELOPMENT OVERLAY DISTRICT
EXISTING GENERAL PLAN PLACE TYPE:	RESIDENTIAL NEIGHBORHOOD
PROPOSED GENERAL PLAN TRANSECT:	T3-2.5FLOOR MAX., 20 DU/AC MAX T4-B (RESIDENTIAL TRANSITIONS) 3FLOOR MAX., 20 DU.AC MAX.
PRIVATE OPEN SPACE	37,575 - AVERAGE 1,075 PER LOT
COMMON OPEN SPACE	14,150 SF - 9% OF PROJECT
LANDSCAPED AREA	35,315 SF = 22% OF THE PROJECT
BUILDING COVERAGE	40,590 SF = 26% COVERAGE

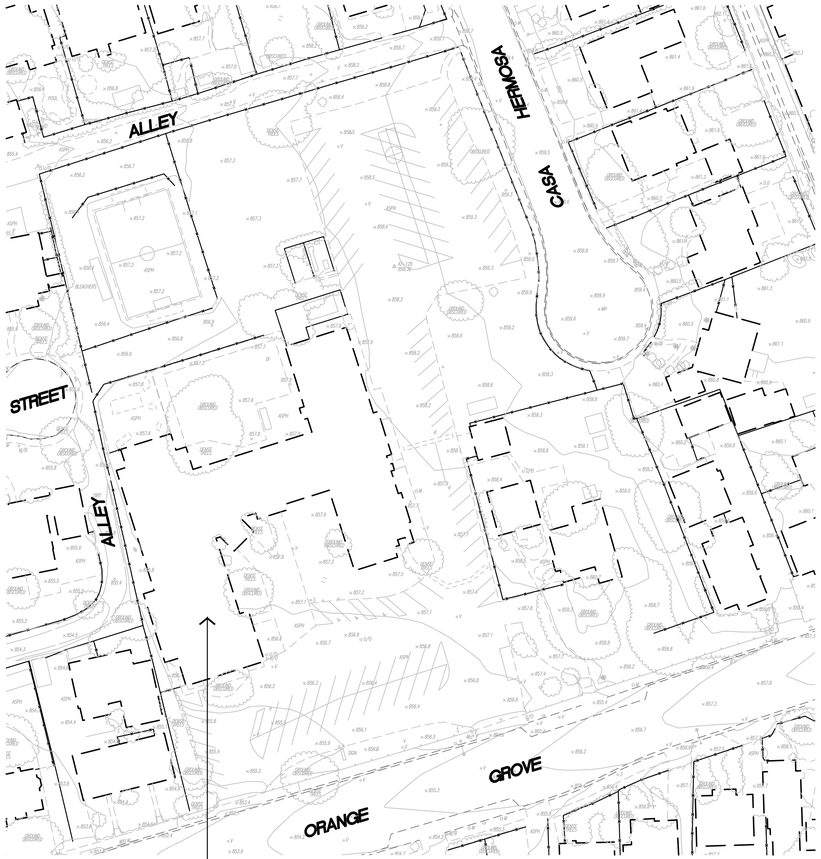
FLOOR PLAN INFO

OCCUPANCY: R-3U
BUILDING TYPE: VB

ITEM	PLAN 1	PLAN 2	PLAN 3
1ST STORY	747	747	803
2ND STORY	940	1,066	1,152
LIVING SPACE	1,687 SF	1,813 SF	1,955 SF
BEDROOMS	3	4	4
BATHROOMS	2.5	2.5	2.5
GARAGE	422	420	475
BUILDING HEIGHT	±27'	±27'	±27'
SIZE	32'x40'	32'x59.5'	32'x59.5'
STORIES	2	2	2
QUANTITY	5	17	11

PARKING SPACE REQUIREMENTS
33 UNITS TOTAL

TYPE	REQUIRED	PROVIDED
COVERED GARAGES	64	64
GUEST - OFF STREET	9	33
HANDICAPPED	2	2



Existing Church of the Brethren Site

Owner:

Pomona Fellowship Church of the Brethren
875 W. Orange Grove Avenue, Pomona, CA 91768

Applicant:

CrestWood COMMUNITIES
510 W. Citrus Edge Street, Glendora, CA 91740
626-914-1943

Sheet Index

T 1	Title Sheet
1	Existing Conditions Site Plan
2	Proposed Site Plan
3	Tentative Tract Map
4	Preliminary Grading Plan
5	Preliminary Landscape Plan
6	Preliminary Landscape Enlargement Plan
7	Preliminary Fencing Plan
8	Preliminary Light Plan
9	Accessory Structure Plan
10	Accessory Structure Plan
11	Cell Tower Radius Plan
12	Driveway Dimension Plan
A-1	Plan 1 floor plans
A-2	Plan 1 exterior elevations A
A-3	Plan 1 exterior elevations B
A-4	Plan 1 roof plans
A-5	Plan 2 floor plans
A-6	Plan 2 exterior elevations A
A-7	Plan 2 exterior elevations B
A-8	Plan 2 roof plans
A-9	Plan 3 floor plans
A-10	Plan 3 exterior elevations A
A-11	Plan 3 exterior elevations B
A-12	Plan 3 roof plans
A-13	Exterior color schemes

SCALE: 1" = 50'

POMONA 33

A 33 unit single family detached residential development
875 W. Orange Grove Avenue, Pomona, CA 91768

REGISTERED LANDSCAPE ARCHITECT
PATRICK J. DIAZ
No. LA 3880
Exp. 3/31/22
STATE OF CALIFORNIA

REVISION	DATE	COMMENTS
1	08.27.20	PER PLANG COMMENTS 09.14.20
	-	-

OWNER:
Pomona Fellowship Church of the Brethren
875 W. Orange Grove Ave
Pomona, CA 91768
909-629-2548

ENGINEER OF RECORD:
MADOLE & ASSOCIATES, INC.
9302 Pittsburgh Avenue, Suite 230
Rancho Cucamonga, CA 91730
909-481-6322

DEVELOPER OF RECORD:
CRESTWOOD COMMUNITES
510 W. CITRUS EDGE STREET
GLENDORA, CA 91740
626-914-1943

THESE PLAN DRAWINGS ARE PROPRIETARY DOCUMENTS OF Crestwood Communities
THEY ARE NOT TO BE DISTRIBUTED, PUBLISHED OR REPRODUCED WITHOUT WRITTEN CONSENT. UNAUTHORIZED USE OR DISCLOSURE OF THESE PLANS IN WHOLE OR IN PART IS STRICTLY PROHIBITED.

PROJECT TITLE: Tract 83141 - 875 W. Orange Grove Avenue
SCALE: -
DESIGNED BY: -
DRAWN BY: -
DATE: 07/02/20
DRAWING TITLE: TITLE SHEET
SHEET # T 1

(FOR CONDOMINIUM PURPOSES)

TENTATIVE TRACT NO. 83141

IN THE CITY OF POMONA, COUNTY OF LOS ANGELES,
STATE OF CALIFORNIA

BEING A SUBDIVISION OF LOTS 32, 33, & 34 OF TRACT MAP 18030, AS PER MAP FILED IN BOOK 457, PAGES 17 THROUGH 18, INCLUSIVE OF MAPS, AND A PORTION OF THE RANCHO SAN JOSE, AS PER MAP FILED IN BOOK 2, PAGES 292 THROUGH 293, INCLUSIVE OF PATENTS, BOTH IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

1 NUMBERED LOT AND 3 LETTERED LOTS
3.60 ACRES GROSS

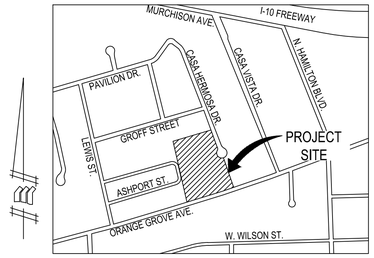
JULY, 2020

PROJECT NOTES:

1. TOTAL SITE AREA = 156,874.5 SQ. FT. (3.6 ACRES)
2. EXISTING SITE IMPERVIOUS AREA = 85,603 SQ. FT. (55%)
3. ADDRESS: 875 W. ORANGE GROVE AVENUE

APN:

8358-009-006; 8358-009-009; 8358-009-010



VICINITY MAP
NOT TO SCALE

EASEMENT NOTES:

7 AN EASEMENT FOR CONSTRUCTION AND MAINTENANCE OF A TUNNEL OR OPEN DITCH FOR THE CONVEYANCE OF WATER AND THE RIGHT TO CONNECT WITH SAID TUNNEL AND INCIDENTAL PURPOSES, RECORDED IN BOOK 1054, PAGE 149 OF DEEDS. (LOCATION UNDETERMINED).

(8) AN EASEMENT FOR PUBLIC UTILITIES AND INCIDENTAL PURPOSES RECORDED 12/27/1948 IN BOOK 29349 PAGE 72 FOR SOUTHERN CALIFORNIA EDISON COMPANY. (TO BE VACATED)

(9) AN EASEMENT FOR PUBLIC UTILITIES RECORDED IN BOOK 457, PAGE 17 OF MAPS. (TO BE VACATED)

BASIS OF BEARINGS:

THE BEARING OF N 73°31'30"E, ALONG THE CENTERLINE OF ORANGE GROVE AVENUE, AS SHOWN ON TRACT MAP No. 18030, AS PER MAP FILED IN BOOK 457, PAGES 17 THROUGH 18, INCLUSIVE OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF LOS ANGELES COUNTY.

LEGEND

EXIST.	EXISTING
C&G	CURB AND GUTTER
FH	FIRE HYDRANT
R/W	RIGHT OF WAY
PL	PROPERTY LINE
℄	CENTERLINE
x 869	SPOT ELEVATION
V	EXISTING 1' CONTOUR
V	EXISTING VALVE
V	EXISTING FIRE HYDRANT
	EXISTING BUILDING
	EXISTING CONCRETE
	EXISTING ASPHALT CONCRETE
S	EXISTING SEWER
W	EXISTING WATER
	RIGHT OF WAY
x x	EXISTING FENCE
MH	MANHOLE

SCALE: 1" = 30'

SCALE IN FEET
0 30 60 90

PROFESSIONAL LAND SURVEYOR
ANTHONY HARO
No. 7635
Exp: 12-31-2020
STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF:

ANTHONY HARO P.L.S. 7635

REV.	DATE	COMMENTS

OWNER:
POMONA FELLOWSHIP
CHURCH OF THE BRETHREN
510 W. 875 W. ORANGE GROVE AVE.
POMONA, CA 91768
909-629-2546

ENGINEER OF RECORD:
MADOLE & ASSOCIATES, INC.
6842 PITTSBURGH AVE., SUITE 200
RANCHO CUCAMONGA, CA 91730
PHONE: 909.481.6222
FAX: 909.481.6220
Engineering Communities for Life
JOB NO. 781-2874

DEVELOPER OF RECORD:
CRESTWOOD COMMUNITIES
510 W. CITRUS EDGE STREET
GLENDORA, CA 91740
626-914-1943

THESE PLAN DRAWINGS ARE PROPRIETARY DOCUMENTS OF CRESTWOOD COMMUNITIES
THEY ARE NOT TO BE DISTRIBUTED, PUBLISHED OR REPRODUCED WITHOUT WRITTEN CONSENT. UNAUTHORIZED DUPLICATION OF THESE PLANS IN WHOLE OR IN PART IS STRICTLY PROHIBITED.

PROPERTY TITLE: 875 W. ORANGE GROVE AVENUE
SCALE: AS SHOWN
DATE: JUNE, 2020
DRAWN BY: TS
CHECKED BY: WLI

TENTATIVE TRACT NO. 83141
EXISTING CONDITIONS

SHEET NO. 1 OF _

J.N. 781-2874 EXISTING CONDITIONS

(FOR CONDOMINIUM PURPOSES)

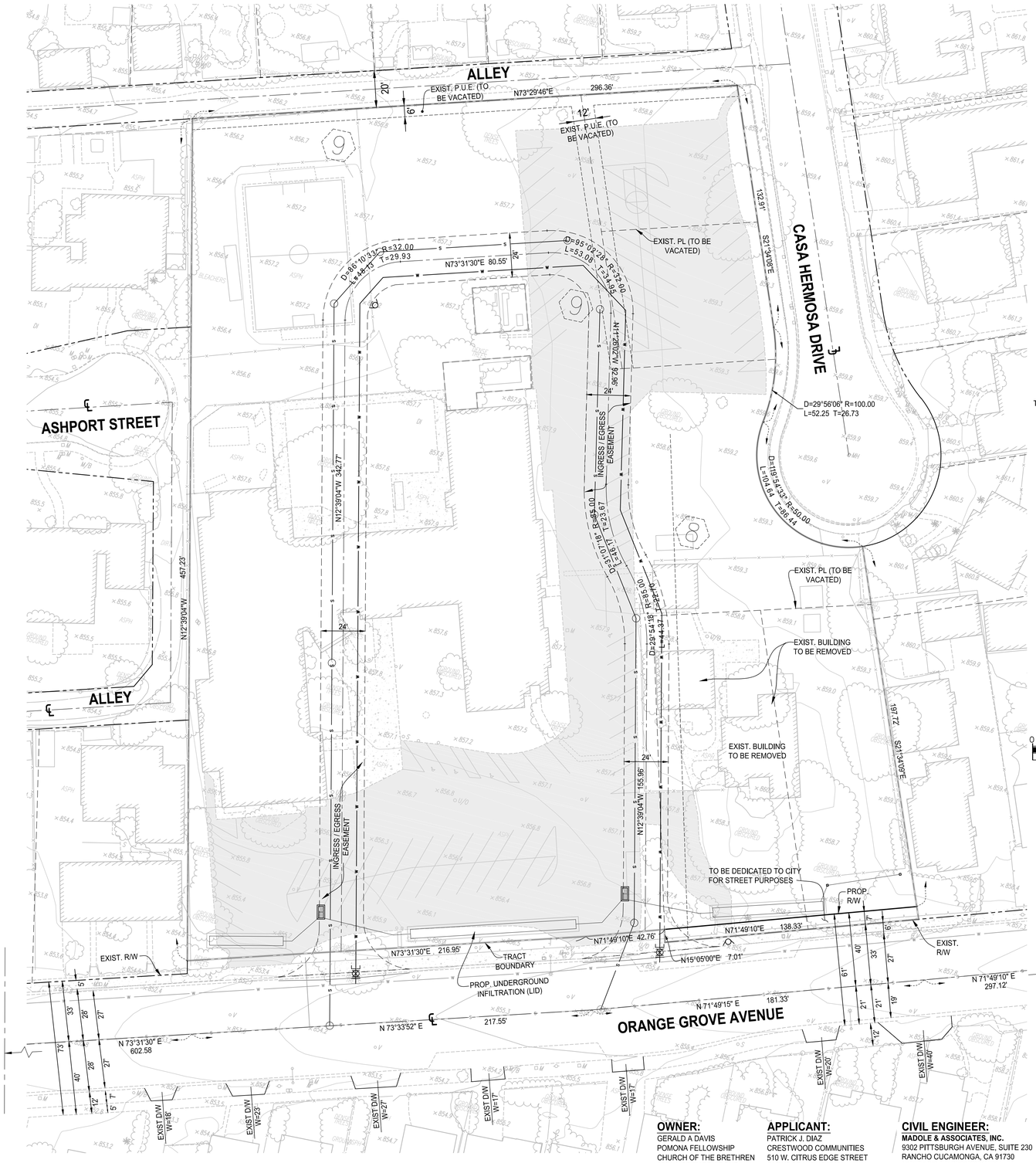
TENTATIVE TRACT NO. 83141

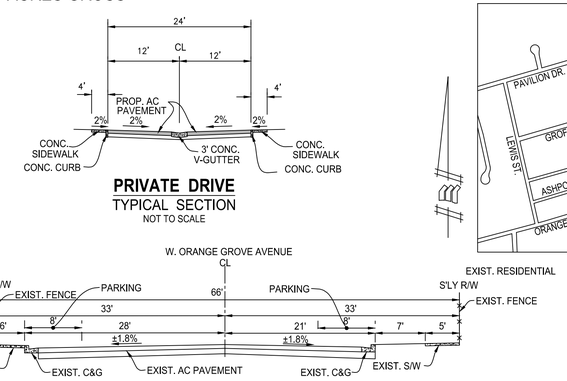
IN THE CITY OF POMONA, COUNTY OF LOS ANGELES,
STATE OF CALIFORNIA

BEING A SUBDIVISION OF LOTS 32, 33, & 34 OF TRACT MAP 18030, IN THE CITY OF POMONA, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP FILED IN BOOK 457, PAGES 17 THROUGH 18, INCLUSIVE OF MAPS, AND A PORTION OF THE RANCHO SAN JOSE, AS PER MAP FILED IN BOOK 2, PAGES 292 THROUGH 293, INCLUSIVE OF PATENTS, BOTH IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

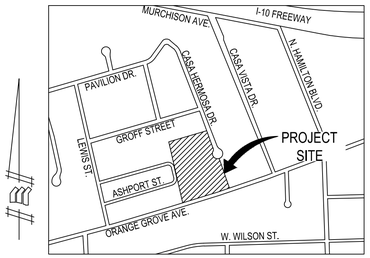
1 NUMBERED LOT AND 3 LETTERED LOTS
3.60 ACRES GROSS

JULY, 2020

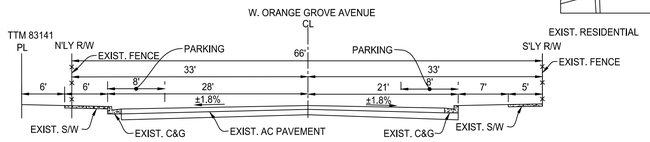




PRIVATE DRIVE
TYPICAL SECTION
NOT TO SCALE



VICINITY MAP
NOT TO SCALE



ORANGE GROVE AVE.
TYPICAL SECTION
SCALE: 1"=10'

LEGEND

PROP.	PROPOSED
EXIST.	EXISTING
C&G	CURB AND GUTTER
FH	FIRE HYDRANT
R/W	RIGHT OF WAY
PL	PROPERTY LINE
℄	CENTERLINE
x 869	SPOT ELEVATION
	EXISTING 1' CONTOUR
V	EXISTING VALVE
	EXISTING FIRE HYDRANT
	EXISTING BUILDING
	EXISTING CONCRETE (TO BE REMOVED)
	EXISTING ASPHALT CONCRETE (TO BE REMOVED)
S	PROPOSED SEWER
W	PROPOSED WATER
	PROPOSED WATER SERVICE
	RIGHT OF WAY
x x	EXISTING FENCE
MH	MANHOLE
	PROPOSED CONCRETE SIDEWALK
LID	LOW IMPACT DEVELOPMENT
CB	CATCH BASIN

SCALE: 1" = 30'

SCALE IN FEET
0 30 60 90

EASEMENT NOTES:

7 AN EASEMENT FOR CONSTRUCTION AND MAINTENANCE OF A TUNNEL OR OPEN DITCH FOR THE CONVEYANCE OF WATER AND THE RIGHT TO CONNECT WITH SAID TUNNEL AND INCIDENTAL PURPOSES, RECORDED IN BOOK 1054, PAGE 149 OF DEEDS. (LOCATION UNDETERMINED).

(8) AN EASEMENT FOR PUBLIC UTILITIES AND INCIDENTAL PURPOSES RECORDED 12/27/1948 IN BOOK 29349 PAGE 72 FOR SOUTHERN CALIFORNIA EDISON COMPANY. (TO BE VACATED)

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BASIS OF BEARINGS:

THE BEARING OF N 73°31'30"E, ALONG THE CENTERLINE OF ORANGE GROVE AVENUE, AS SHOWN ON TRACT MAP No. 18030, AS PER MAP FILED IN BOOK 457, PAGES 17 THROUGH 18, INCLUSIVE OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF LOS ANGELES COUNTY.

BENCH MARK:

B.M. NO. 361 ELEV. 847.38'

L. AND T. ON CURB AT B.C.R. 55± OF C/L OF LEWIS STREET AND 30'± NORTH OF C/L OF ORANGE GROVE AVENUE

FLOOD ZONE :

THE LAND SHOWN HEREON LIES ENTIRELY WITHIN FLOOD ZONE "X" (UNSHADED), BEING DESCRIBED AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN " PER FLOOD INSURANCE RATE MAP (FIRM) - COMMUNITY PANEL NUMBER 06037C1725F, DATED SEPTEMBER 26, 2008.

PROJECT NOTES:

1. TOTAL SITE AREA = 156,874.5 SQ. FT. (3.6 ACRES)
2. SITE ADDRESS: 875 W. ORANGE GROVE AVENUE
3. EXISTING SITE IMPERVIOUS AREA = 85,603 SQ. FT. (55%)
4. PROPOSED SITE IMPERVIOUS AREA = 101,968 SQ. FT. (65% *CONDOMINIUM - TABLE 6.3.2 LA COUNTY HYDROLOGY MANUAL FOR MULTI-FAMILY DEVELOPMENT*).
5. PROPOSED LID: STORM WATER QUALITY RUNOFF AND NUISANCE/LOW FLOWS FROM THE PROJECT SITE WILL BE INTERCEPTED VIA AREA DRAIN AND CATCH BASIN AND ROUTED INTO UNDERGROUND INFILTRATION CHAMBERS ALONG THE SOUTHERN BOUNDARY LINE.
   A. UNDERGROUND INFILTRATION TO REMAIN 15' FROM BUILDING FOUNDATIONS.
   B. SIZE OF CHAMBERS MAY VARY UPON SITE SPECIFIC INFILTRATION TESTING PRIOR TO FINAL DESIGN.
5. STORMWATER RUNOFF EXCEEDING LID VOLUME WILL FLOW SOUTH INTO ORANGE GROVE AVENUE AND WESTERLY TOWARDS EXISTING CATCH BASINS ON THE NORTHEAST CORNER OF ORANGE GROVE AVENUE AND LEWIS STREET (APPROXIMATELY ±500' WEST OF PROJECT SITE).
6. PROJECT LOCATED IN AREA OF MINIMAL FLOOD HAZARD.
7. NO OFFSITE AREAS ARE TRIBUTARY TO THIS SUBDIVISION.
8. ALL EXISTING BUILDINGS, INFRASTRUCTURE, CONCRETE, ASPHALT, AND LANDSCAPING TO BE REMOVED (UNLESS OTHERWISE NOTED).
9. THE PROJECT WILL COMPLY WITH ANY PARK / LAND DEDICATION RESOLUTION NO. 89-200
10. THE LOCATION OF ANY PREVIOUSLY FILLED AREAS WILL BE DESIGNATED BY THE SOILS ENGINEER.
11. ANY EXISTING WELLS, IRRIGATION LINES, CESSPOOLS, SEPTIC TANKS, SEWAGE LEACH FIELDS, SEWERS, CULVERTS, STORM DRAINS, AND UNDERGROUND STRUCTURES WILL BE REMOVED.
   A. THE LOCATION OF ANY OF THESE EXISTING ITEMS IS CURRENTLY UNKNOWN.
12. BUS STOPS:
   A. ± 500' WEST AT NORTHEAST CORNER OF ORANGE GROVE AVENUE AND LEWIS STREET.
   B. ±960' EAST AT NORTHEAST CORNER OF ORANGE GROVE AVENUE AND N. HAMILTON BOULEVARD.

SURVEYOR'S NOTES:

1. PROPOSED LOTS: 1 NUMBERED LOT AND 3 LETTERED LOTS.
2. ASSESSOR'S PARCELS: 8358-009-006; 8358-009-009; 8358-009-010
3. GENERAL PLAN DESIGNATION: RESIDENTIAL NEIGHBORHOOD
4. EXISTING USE: CHURCH
   PROPOSED USE: DETACHED CONDOMINIUMS
5. EXISTING ZONING: R-1-6, 000
   PROPOSED ZONING: PLANNED DEVELOPMENT OVERLAY DISTRICT
   SETBACKS - FRONT: GARAGE: 18'
   BUILDING: 15'
   SIDE: 5'
   REAR: 15'
   POTENTIAL RESIDENTIAL DENSITY: 9.17 UNITS PER ACRE
6. UTILITIES:
   SEWER CITY OF POMONA
   WATER CITY OF POMONA
   ELECTRIC SOUTHERN CALIFORNIA EDISON
   GAS SOUTHERN CALIFORNIA GAS COMPANY
   PHONE GTE
7. MAP AREA: 156,874.50 SQ. FT. (3.60 ACRES)
8. LOT "A" RESERVED HEREON FOR PARCEL PURPOSES & CELL TOWER LEASE WITH INGRESS AND EGRESS ACCESS FOR MAINTENANCE PURPOSES
9. LOT "B" TO BE DEDICATED TO THE CITY OF POMONA FOR STREET PURPOSES
10. LOT "C" RESERVED HEREON FOR INGRESS AND EGRESS PURPOSES AND FOR PUBLIC UTILITY PURPOSES

PROFESSIONAL LAND SURVEYOR ANTHONY HARO No. 7635 Exp: 12-31-2020 STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF:

ANTHONY HARO P.L.S. 7635

OWNER:
GERALD A DAVIS
POMONA FELLOWSHIP
CHURCH OF THE BRETHREN
875 W. ORANGE GROVE
AVENUE
POMONA, CA 91768
909-629-2548

APPLICANT:
PATRICK J. DIAZ
CRESTWOOD COMMUNITIES
510 W. CITRUS EDGE STREET
GLENDORA, CA 91740
626-914-1943 EXT. 250
pdiaz@crestwoodcommunities.com

CIVIL ENGINEER:
MADOLE & ASSOCIATES, INC.
9302 PITTSBURGH AVENUE, SUITE 230
RANCHO CUCAMONGA, CA 91730
CONTACT: MARK BERTONE
PHONE: 909-481-6322
MBERTONE@MADOLEINC.COM

REV.	DATE	COMMENTS

OWNER:
POMONA FELLOWSHIP
CHURCH OF THE BRETHREN
510 W. 875 W. ORANGE GROVE AVE.
POMONA, CA 91768
909-629-2546

ENGINEER OF RECORD:
MADOLE & ASSOCIATES, INC.
9302 PITTSBURGH AVE., SUITE 230
RANCHO CUCAMONGA, CA 91730
PHONE: 909-481-6322
FAX: 909-481-6323
JOB NO. 781-2874

DEVELOPER OF RECORD:
CRESTWOOD COMMUNITIES
510 W. CITRUS EDGE STREET
GLENDORA, CA 91740
626-914-1943

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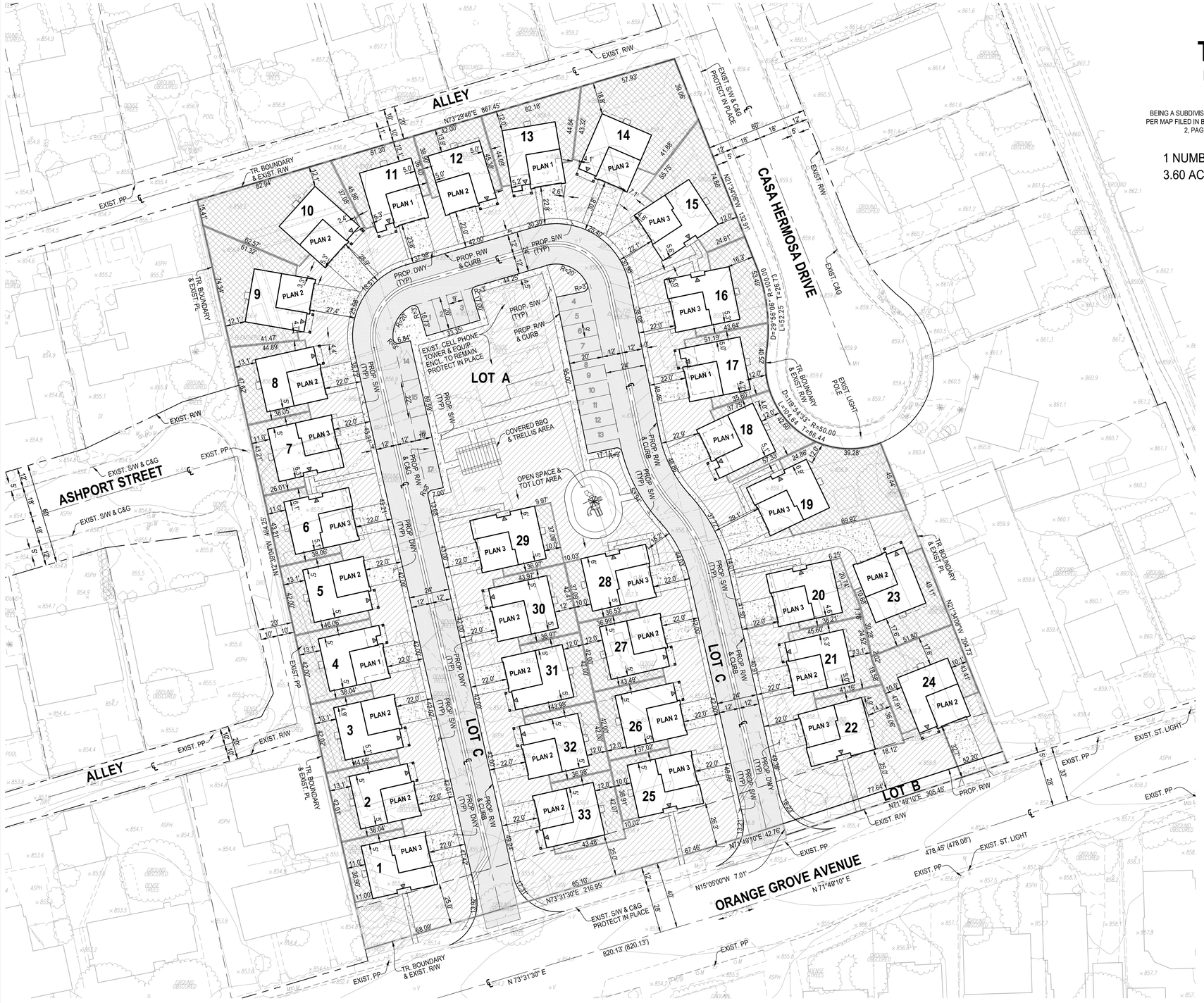
UNAUTHORIZED DUPLICATION OF THESE PLANS, IN WHOLE OR IN PART IS STRICTLY PROHIBITED.

PROPERTY TITLE: 875 W. ORANGE GROVE AVENUE
SCALE: AS SHOWN
DATE: JUNE, 2020
DRAWN BY: TS
CHECKED BY: WLJ

TENTATIVE TRACT NO. 83141
TENTATIVE TRACT MAP

SHEET NO. 2 OF _

J.N. 781-2874 Tentative Tract Map



(FOR CONDOMINIUM PURPOSES)

TENTATIVE TRACT NO. 83141

IN THE CITY OF POMONA, COUNTY OF LOS ANGELES,
STATE OF CALIFORNIA

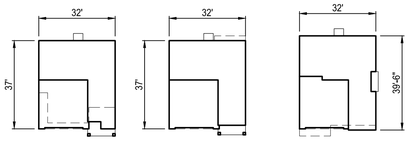
BEING A SUBDIVISION OF LOTS 32, 33, & 34 OF TRACT MAP 18030, IN THE CITY OF POMONA, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP FILED IN BOOK 457, PAGES 17 THROUGH 18, INCLUSIVE OF MAPS, AND A PORTION OF THE RANCHO SAN JOSE, AS PER MAP FILED IN BOOK 2, PAGES 292 THROUGH 293, INCLUSIVE OF PATENTS, BOTH IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

1 NUMBERED LOT & 3 LETTERED LOTS
3.60 ACRES GROSS

JULY, 2020

LEGEND:

C&G	CURB & GUTTER
EXIST.	EXISTING
PL	PROPERTY LINE
PP	POWER POLE
PROP.	PROPOSED
R/W	RIGHT OF WAY
ST.	STREET
S/W	SIDEWALK
TR.	TRACT
TYP.	TYPICAL
	AC PAVEMENT
	BACKYARD
	CONCRETE DRIVE & SIDEWALK
	FRONTYARD
	FRONT DOOR



PLAN 1
1,687 SF
(5 EA)

PLAN 2
1,813 SF
(17 EA)

PLAN 3
1,955 SF
(11 EA)

AVERAGE LOT SIZE = 3,597 SF

PROJECT INFORMATION :

OWNER:
GERALD A DAVIS
POMONA FELLOWSHIP CHURCH OF THE BRETHREN
875 W. ORANGE GROVE AVENUE
POMONA, CA 91768
909-629-2548

APPLICANT:
PATRICK J. DIAZ
CRESTWOOD COMMUNITIES
510 W. CITRUS EDGE STREET
GLENDORA, CA 91740
626-914-1943 EXT. 250
pdiaz@crestwoodcommunities.com

ADDRESS:
875 W. ORANGE GROVE AVENUE

SCALE: 1" = 30'

SCALE IN FEET
0 30 60 90

PROFESSIONAL LAND SURVEYOR
ANTHONY HARO
No. 7635
Exp: 12-31-2020
STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF:

ANTHONY HARO P.L.S. 7635

REV.	DATE	COMMENTS

OWNER:
POMONA FELLOWSHIP
CHURCH OF THE BRETHREN
510 W. 875 W. ORANGE GROVE AVE.
POMONA, CA 91768
909-629-2548

ENGINEER OF RECORD:
MADOLE & ASSOCIATES, INC.
Engineering Communities for Life
9302 PITTSBURGH AVE., SUITE 230
RANCHO CUCAMONGA, CA 91730
PHONE: 909.481.6322
FAX: 909.481.6320
JOB NO. 781-2874

DEVELOPER OF RECORD:
CRESTWOOD COMMUNITIES
510 W. CITRUS EDGE STREET
GLENDORA, CA 91740
626-914-1943

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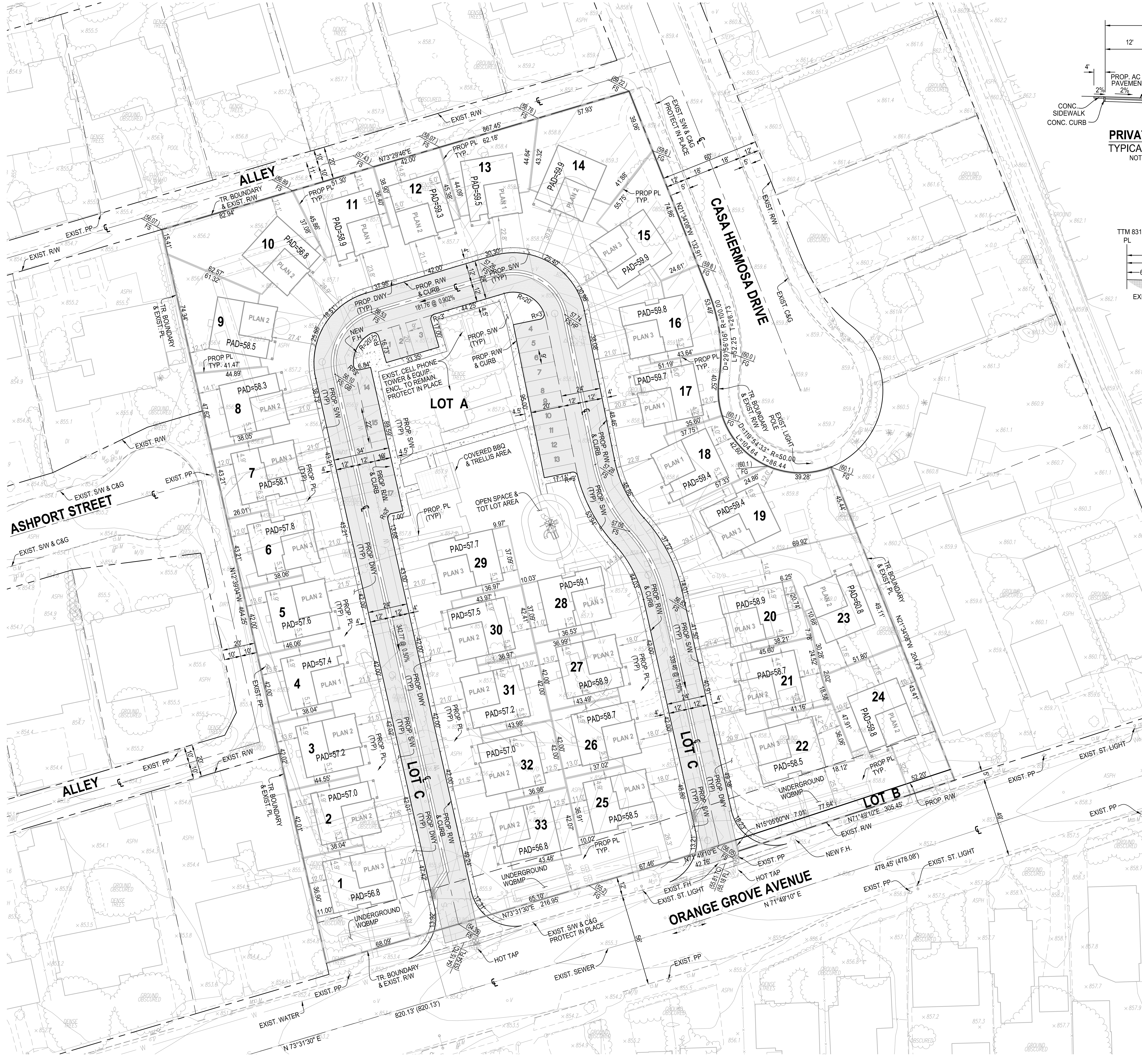
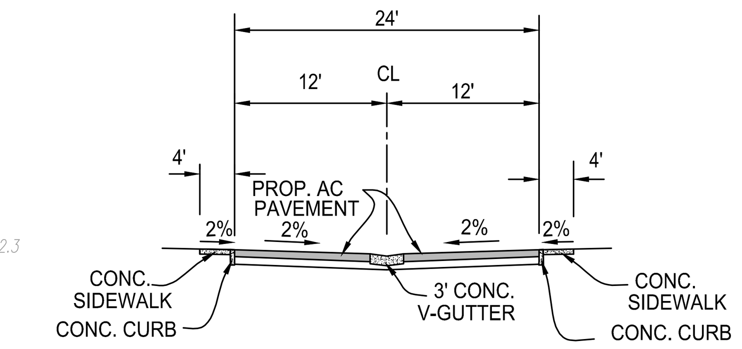
PROPERTY TITLE:
875 W. ORANGE GROVE AVENUE

SCALE: AS SHOWN
DATE: JUNE, 2020
DRAWN BY: DM
CHECKED BY: WLI

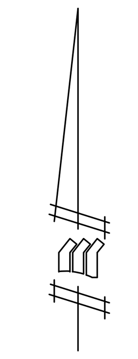
TENTATIVE TRACT NO. 83141
PRELIMINARY SITE PLAN

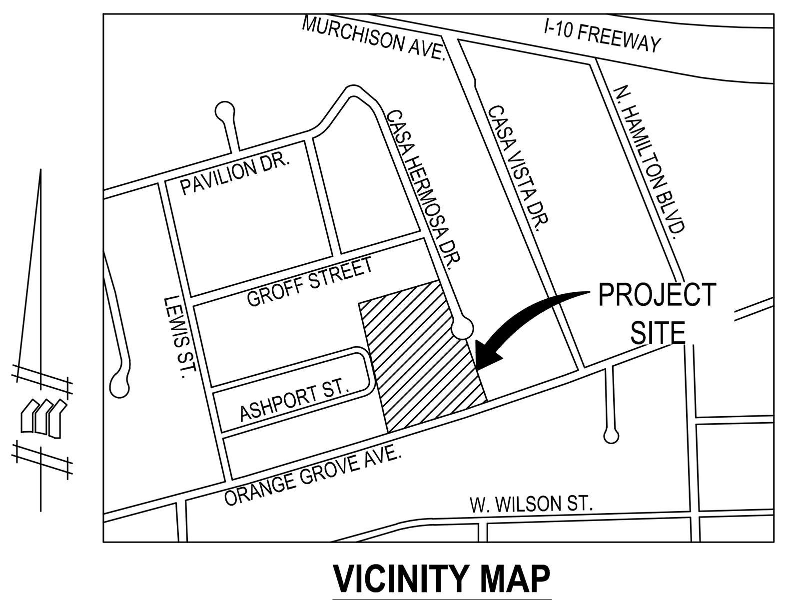
SHEET NO.
3 OF _



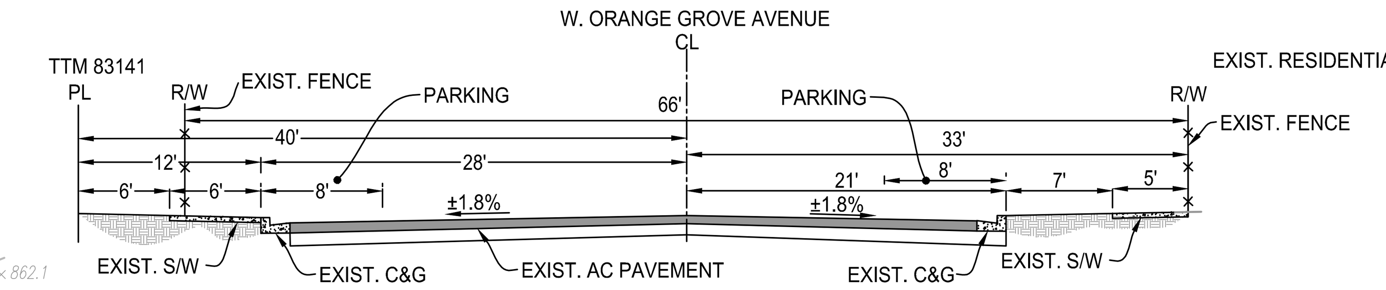


PRIVATE DRIVE
TYPICAL SECTION
NOT TO SCALE





VICINITY MAP
NOT TO SCALE



ORANGE GROVE AVE.
TYPICAL SECTION
SCALE: 1"=10'

LEGEND:

C&G	CURB & GUTTER
EXIST.	EXISTING
FH	FIRE HYDRANT
PL	PROPERTY LINE
PP	POWER POLE
PROP.	PROPOSED
R/W	RIGHT OF WAY
ST.	STREET
S/W	SIDEWALK
TR.	TRACT
TYP.	TYPICAL
	AC PAVEMENT
	CONCRETE SIDEWALK
℄	CENTER LINE
	EXISTING FENCE
19	LOT NUMBER
PAD=58.5	PAD ELEVATION
	RIGHT OF WAY
S	PROPOSED SEWER
W	PROPOSED WATER

LEGAL DECRIPTION:

BEING A SUBDIVISION OF LOTS 32, 33, & 34 OF TRACT MAP 18030, IN THE CITY OF POMONA, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP FILED IN BOOK 457, PAGES 17 THROUGH 18, INCLUSIVE OF MAPS, AND A PORTION OF THE RANCHO SAN JOSE, AS PER MAP FILED IN BOOK 2, PAGES 292 THROUGH 293, INCLUSIVE OF PATENTS, BOTH IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

EASEMENT NOTES:

7 AN EASEMENT FOR CONSTRUCTION AND MAINTENANCE OF A TUNNEL OR OPEN DITCH FOR THE CONVEYANCE OF WATER AND THE RIGHT TO CONNECT WITH SAID TUNNEL AND INCIDENTAL PURPOSES, RECORDED IN BOOK 1054, PAGE 149 OF DEEDS. (LOCATION UNDETERMINED).

8 AN EASEMENT FOR PUBLIC UTILITIES AND INCIDENTAL PURPOSES RECORDED 12/27/1948 IN BOOK 29349 PAGE 72 FOR SOUTHERN CALIFORNIA EDISON COMPANY. (TO BE VACATED)

9 AN EASEMENT FOR PUBLIC UTILITIES RECORDED IN BOOK 457, PAGE 17 OF MAPS. (TO BE VACATED)

BASIS OF BEARINGS:

THE BEARING OF N 73°31'30"E, ALONG THE CENTERLINE OF ORANGE GROVE AVENUE, AS SHOWN ON TRACT MAP No. 18030, AS PER MAP FILED IN BOOK 457, PAGES 17 THROUGH 18, INCLUSIVE OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF LOS ANGELES COUNTY.

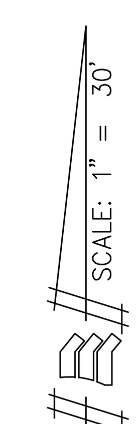
BENCH MARK:

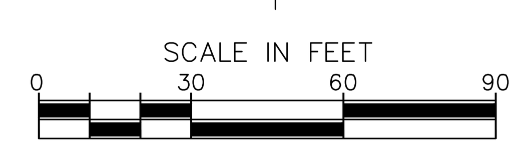
B.M. NO. 361 ELEV. 847.38'

L. AND T. ON CURB AT B.C.R. 55'± OF C/L OF LEWIS STREET AND 30'± NORTH OF C/L OF ORANGE GROVE AVENUE

APN:

8358-009-006; 8358-009-009; 8358-009-010





PROJECT INFORMATION :

OWNER:

GERALD A DAVIS
POMONA FELLOWSHIP CHURCH OF THE BRETHREN
875 W. ORANGE GROVE AVENUE
POMONA, CA 91768
909-629-2548

APPLICANT:

PATRICK J. DIAZ
CRESTWOOD COMMUNITIES
510 W. CITRUS EDGE STREET
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626-914-1943 EXT. 250
pdiaz@crestwoodcommunities.com

ADDRESS:

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PROFESSIONAL LAND SURVEYOR
ANTHONY HARO
No. 7635
Exp: 12-31-2020
STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF:

ANTHONY HARO P.L.S. 7635

REV.	DATE	COMMENTS

OWNER:
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510 W. 875 W. ORANGE GROVE AVE.
POMONA, CA 91768
909-629-2548

ENGINEER OF RECORD:
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9302 PITTSBURGH AVE., SUITE 230
RANCHO CUCAMONGA, CA 91730
PHONE: 909.481.6322
FAX: 909.481.6320
JOB NO. 781-2874

DEVELOPER OF RECORD:
CRESTWOOD COMMUNITIES
510 W. CITRUS EDGE STREET
GLENDORA, CA 91740
626-914-1943

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PROPERTY TITLE:
875 W. ORANGE GROVE AVENUE

SCALE: AS SHOWN
DRAWN BY: DM
DATE: JUNE, 2020
CHECKED BY: WLI

TENTATIVE TRACT No. 83141
PRELIMINARY GRADING PLAN

SHEET NO. **4** OF _

PLANTING LEGEND

BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
TREES			
A. KOELREUTERIA BIPINNATA	CHINES FLAME TREE	15 GAL.	STD. TRUNK
B. LAGERSTROEMIA I. TUSCARORA	CRAPE MYRTLE	24" BOX	MULTI-TRUNK
C. MAGNOLIA G. 'LITTLE GEM'	LITTLE GEM MAGNOLIA	24" BOX	STD. TRUNK
D. PLATANUS A. 'COLUMBIA'	LONDON PLANE TREE	24" BOX	STD. TRUNK
E. PLATANUS RACEMOSA	WESTERN SYCAMORE	15 GAL.	MULTI-TRUNK

HOA MAINTAINED LANDSCAPE AREA

ARTIFICIAL TURF

COMMON LANDSCAPE AREAS

CASA HERMOSA DRIVE PARKWAY SHRUB and GROUND COVER AREAS

PRIVATELY MAINTAINED LANDSCAPE AREA

FRONT YARD AREAS MAINTAINED BY THE PRIVATE HOMEOWNER

REAR and SIDE YARD AREAS MAINTAINED BY THE PRIVATE HOMEOWNER

83141 - Pomona 33
Private open space

lot	width	length	area SF
1	11	37	535
2	12.5	42	827
3	13	42	834
4	13	42	837
5	13	42	838
6	11	43	700
7	11.5	43	702
8	13.5	47	955
9	20	74	1,818
10	22	82	2,599
11	12	51	1,029
12	14	42	866
13	12	62	1,338
14	19	57	2,751
15	12	74	1,669
16	12	53	1,117
17	11	40	843
18	12	42	922
19	43	45	2,503
20	7	34	472
21	13	42	851
22	14	38	736
23	17	51	1,334
24	17	51	1,480
25	10	38	501
26	12	42	786
27	12	42	789
28	10	43	507
29	10	38	507
30	12	42	788
31	12	42	786
32	12	42	785
33	11	38	570
		total	34,575

SCALE 1" = 30'

REGISTERED LANDSCAPE ARCHITECT
PATRICK J. DIAZ
No. LA 3880
Exp. 3/31/22
STATE OF CALIFORNIA

REVISION	DATE	COMMENTS
1	08.27.20	PER PLANG COMMENTS 09.14.20

OWNER:
Pomona Fellowship Church of the Brethren
875 W. Orange Grove Ave
Pomona, CA 91768
909-629-2548

ENGINEER OF RECORD
MADOLE & ASSOCIATES, INC.
9302 Pittsburgh Avenue, Suite 230
Rancho Cucamonga, CA 91730
909-481-6322

DEVELOPER OF RECORD
CRESTWOOD COMMUNITES
510 W. CITRUS EDGE STREET
GLENDORA, CA 91740
626-914-1943

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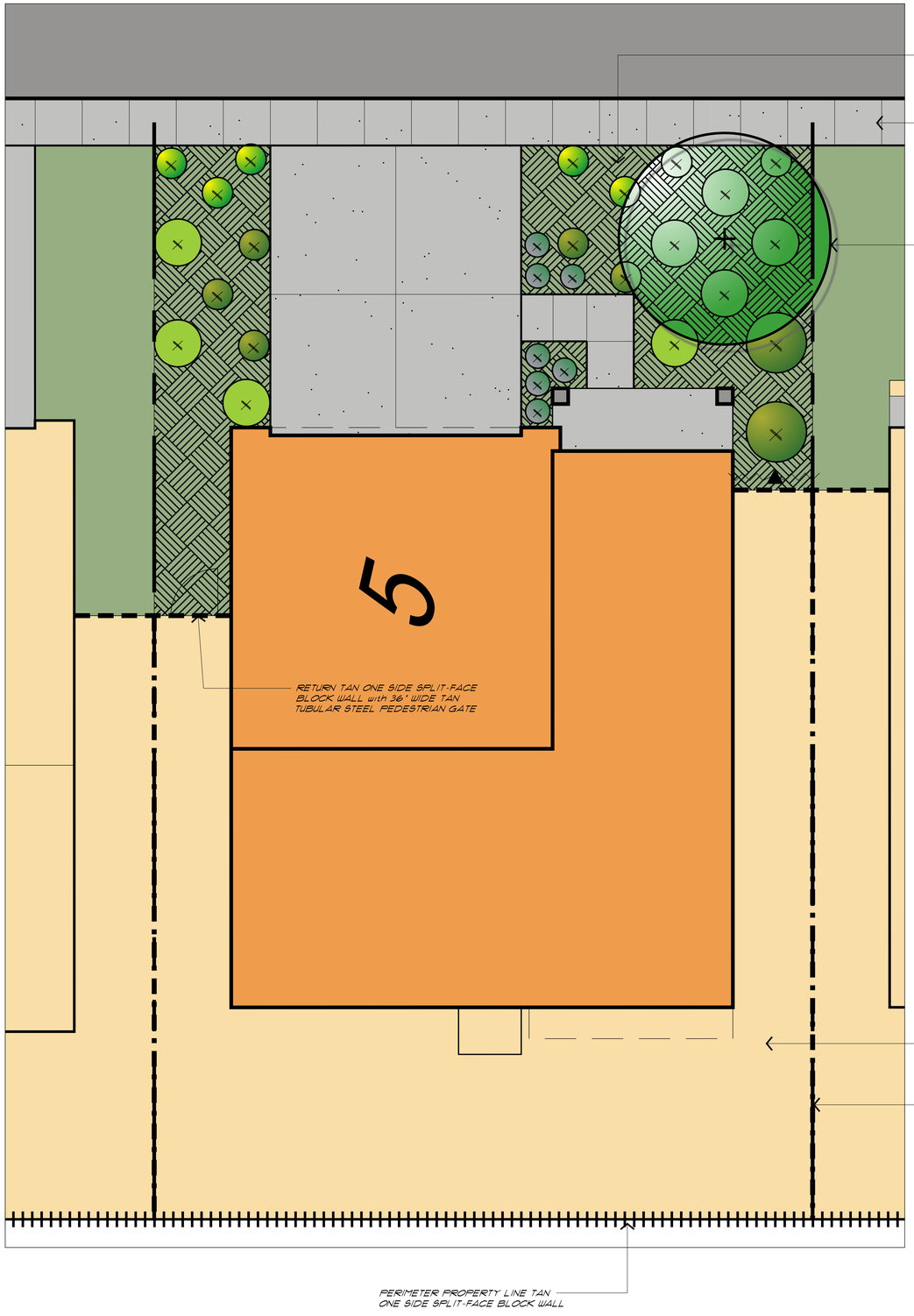
PROJECT TITLE: Tract 83141 - 875 W. Orange Grove Avenue
SCALE: -
DATE: 07/02/20
DRAWING TITLE:
SHEET #: L1

PRELIM LANDSCAPE PLAN



PLANTING LEGEND

BOTANICAL NAME	COMMON NAME	SIZES	WUCOLS
TREES 24" BOX			
C. MAGNOLIA G. 'LITTLE GEM'	LITTLE GEM MAGNOLIA	24" BOX	M
SHRUBS 1 & 5 GALLON			
1. ANIGOZANTHOS FLAVIDUS	KANGARO PAW	5 GAL	L
2. ARBUTUS UNEDO	STRAWBERRY TREE	5 GAL	L
3. BACCHARIS 'SPECIES'	COYOTE BRUSH	5 GAL	L
4. CALLESTEMON 'LITTLE JOHN'	DWARF BOTTLEBRUSH	5 GAL	L
5. CISTUS PURPUREUS	ORCHID ROCKROSE	5 GAL	L
6. DIANELLA 'REVOLUTA 'LITTLE REV.'	DIANELLA	5 GAL	M
7. ELAEGNUS PUNGENS	SILVERBERRY	5 GAL	L
8. HESPEROLEA PARVIFLORIA	RED YUCCA	5 GAL	L
9. LANTAN M. 'NEW GOLD'	YELLOW TRAILING LANTANA	5 GAL	L
10. LEUCOPHYLLUM FRUTESCENS	TEXAS SAGE	5 GAL	L
11. MYOPORUM P. 'FUTAH CREEK'	PROSTRATE MYOPORUM	1 GAL	L
12. ROSA CALIFORNICA	CALIFORNIA WILD ROSE	1 GAL	L
13. SALVIA GREGGII	AUTUMN SAGE 'RED'	5 GAL	L
14. SALVIA GUARANTITICA	ANISE-SCENTED SAGE	5 GAL	L
15. STIPA TENUISSIMA	MEXICAN FEATHER GRASS	5 GAL	L
16. VERBENA PERUVIANA	PINK VERBENA	5 GAL	L
17. WESTRINGIA FRUTICOSA	WESTRINGIA	5 GAL	L
18. MUHLENBERGIA RIGENS	DEER GRASS	5 GAL	L
VINES			
19. PARTHENOSISUS TRICUSPIDATA	BOSTON IVY	1 GAL.	L

SCALE 1" = 30'

REGISTERED LANDSCAPE ARCHITECT
PATRICK J. DIAZ
No. LA 3880
Exp. 3/31/22
STATE OF CALIFORNIA

REVISION	DATE	COMMENTS
1	-	-

DEVELOPER OF RECORD:
CRESTWOOD COMMUNITES
510 W. CITRUS EDGE STREET
GLENDORA, CA 91740
626-914-1943

OWNER:
Pomona Fellowship Church of the Brethren
875 W. Orange Grove Ave
Pomona, CA 91768
909-629-2548

ENGINEER OF RECORD:
MADOLE & ASSOCIATES, INC.
9302 Pittsburgh Avenue, Suite 230
Rancho Cucamonga, CA 91730
909-481-6322

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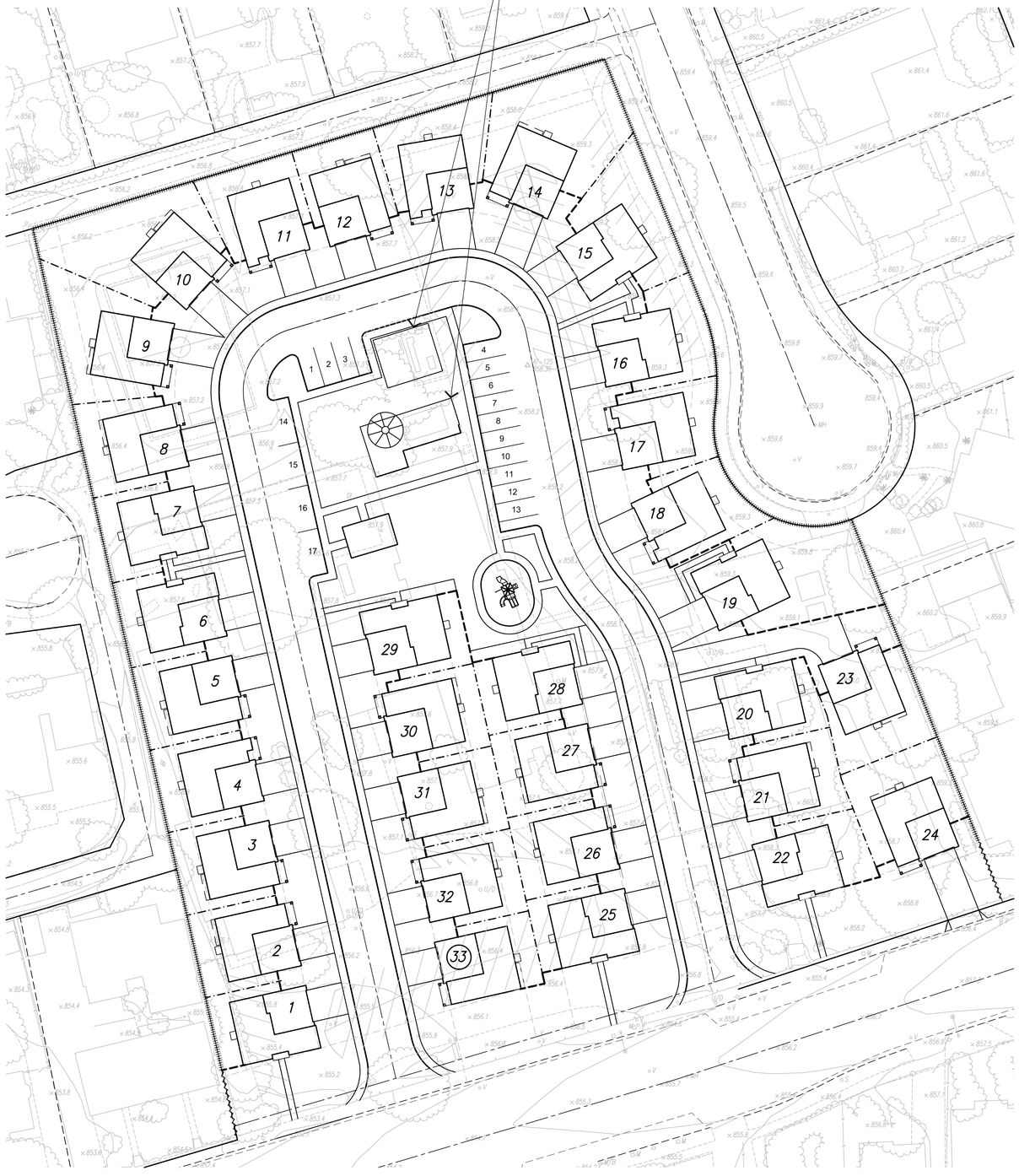
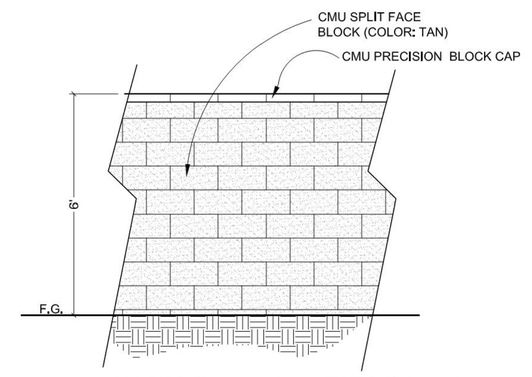
PROJECT TITLE: Tract 83141 - 875 W. Orange Grove Avenue
SCALE: -
DESIGNED BY: -
DRAWN BY: -
DATE: 07/02/20
DRAWING TITLE: **PRELIM LANDSCAPE ENLARGMENT PLAN**
SHEET # 6

EXISTING BLOCK WALLS AROUND THE CELL TOWER SHALL REMAIN and BE PAINTED TAN TO MATCH THE NEW PROPOSED MASONRY BLOCK WALLS



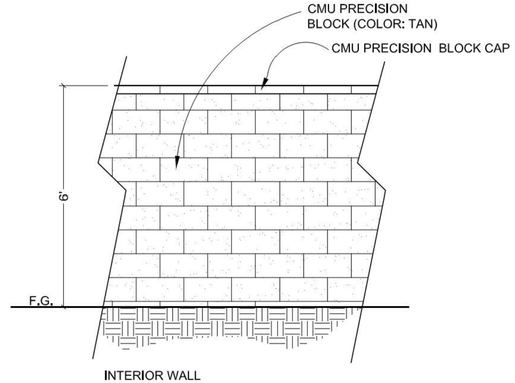
WALL LENGEND

LINE TYPE	WALL TYPE	COMMENTS	FINISH / COLOR
———	6'-0" TALL SPLIT-FACE ONE SIDE BLOCK WALL	RETURN WALLS WITH 3' PEDESTRIAN GATE	TAN
—·—·—	6'-0" TALL PRECISION BLOCK WALL	INTERIOR PROPERTY LINE WALL	TAN
———	6'-0" TALL SPLIT-FACE ONE SIDE BLOCK WALL	PERIMETER WALLS	TAN
~~	3'-6" TALL SPLIT-FACE TWO SIDES BLOCK WALL	PERIMETER WALLS	TAN



PROJECT ENTRY WALL AND ALL STREET FACING WALLS
TYPICAL MASONRY WALL ELEVATION

PERIMETER & RETURN LINE WALLS



INTERIOR WALL
TYPICAL MASONRY WALL ELEVATION

INTERIOR PROPERTY LINE WALLS

SCALE: 1" = 30'

REGISTERED LANDSCAPE ARCHITECT
PATRICK J. DIAZ
No. LA 3880
Exp. 3/31/22
STATE OF CALIFORNIA

REVISION	DATE	COMMENTS
1	08.27.20	PER PLANG COMMENTS 09.14.20
	-	-

OWNER:
Pomona Fellowship Church of the Brethren
875 W. Orange Grove Ave
Pomona, CA 91768
909-629-2548

ENGINEER OF RECORD:
MADOLE & ASSOCIATES, INC.
9302 Pittsburgh Avenue, Suite 230
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909-481-6322

DEVELOPER OF RECORD:
CRESTWOOD COMMUNITES
510 W. CITRUS EDGE STREET
GLENDORA, CA 91740
626-914-1943

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PROJECT TITLE:
Tract 83141 - 875 W. Orange Grove Avenue

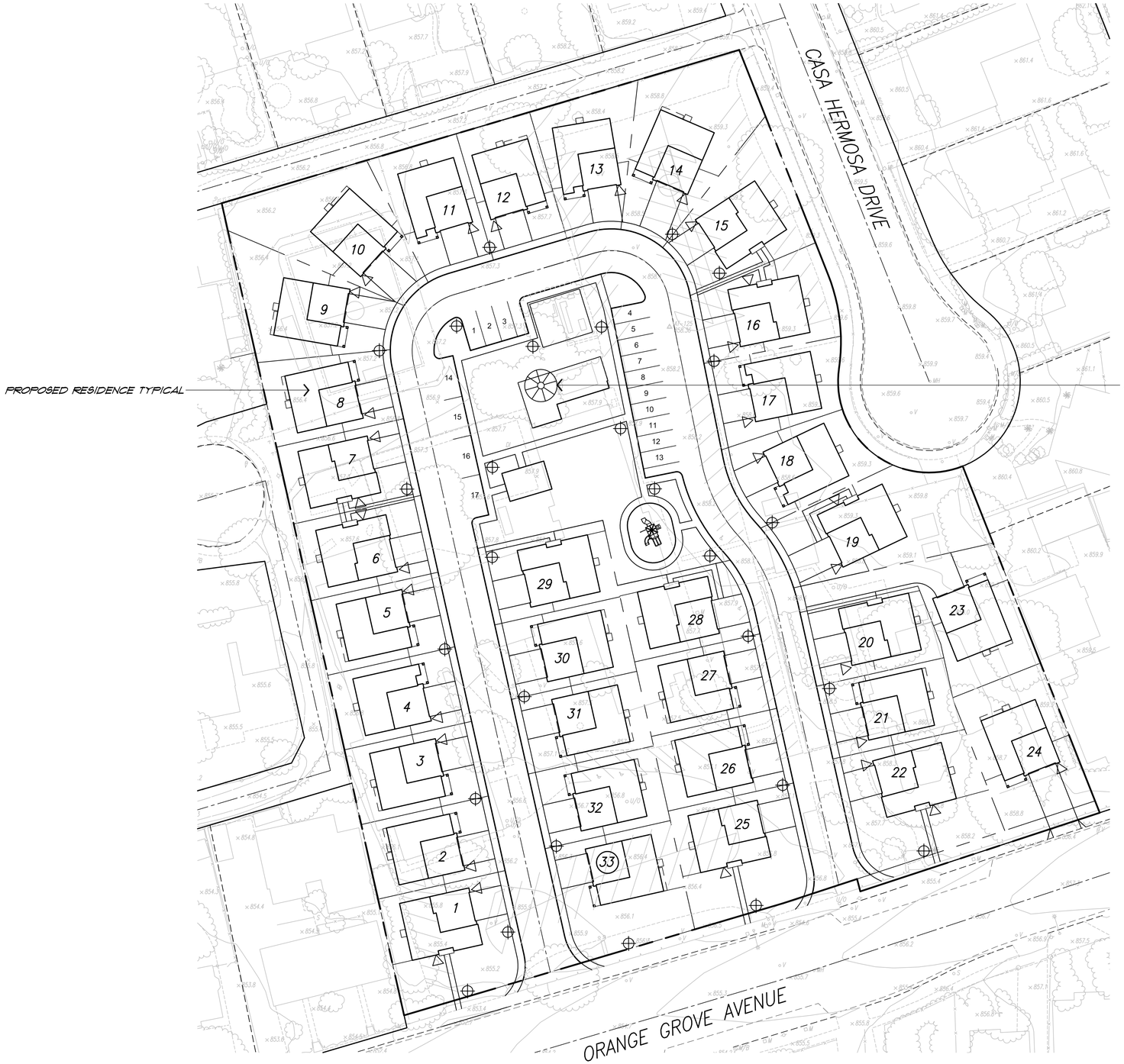
SCALE:

DATE: 07/02/20

DRAWING TITLE:
PRELIM FENCING PLAN

DESIGNED BY: -
DRAWN BY: -

SHEET
1



LIGHTING LEGEND

SYMBOL	DESCRIPTION
⊕	120V LED DECORATIVE LIGHT FIXTURE ON A 10' METAL POLE PAINTED BLACK LOCATED ALONG PEDESTRIAN WALKWAYS and SIDEWALKS AS INDICATED BY MAXIM LIGHTING CO. - DOVER LED MODEL NO. 55021CDBZ OR EQUAL
▽	120V LED DECORATIVE SCONCE LIGHT FIXTURE - EACH RESIDENCE SHALL RECEIVE (1) LIGHT FIXTURE MOUNTED ON SIDE OF THE GARAGE TO BE CONTROLLED BY A PHOTO-CELL AS INDICATED BY MAXIM LIGHTING COMPANY MODEL PER ARCHITECTURAL ELEVATIONS
	SPANISH — CARRIAGE HOUSE LED E26 - 56522MOOB
	CRAFTSMAN — BUNGALOW LED E26 - 656S4CDWSBZ
NOT SHOWN	120V LED DECORATIVE DOWN LIGHT FIXTURE TWO PER TRELLIS STRUCTURE MOUNTED ON EITHER SIDE

Dover LED | 55021CDBZ

POLE FIXTURE

Carriage House LED E26 | 56522MOOB

SPANISH

Bungalow LED E26 | 656S4CDWSBZ

CRAFTSMAN

SCALE: 1" = 30'

REGISTERED LANDSCAPE ARCHITECT
PATRICK J. DIAZ
No. LA 3880
Exp. 3/31/22
STATE OF CALIFORNIA

REVISION	DATE	COMMENTS
1	08.27.20	PER PLANG COMMENTS 09.14.20
	-	-

OWNER:
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875 W. Orange Grove Ave
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909-629-2548

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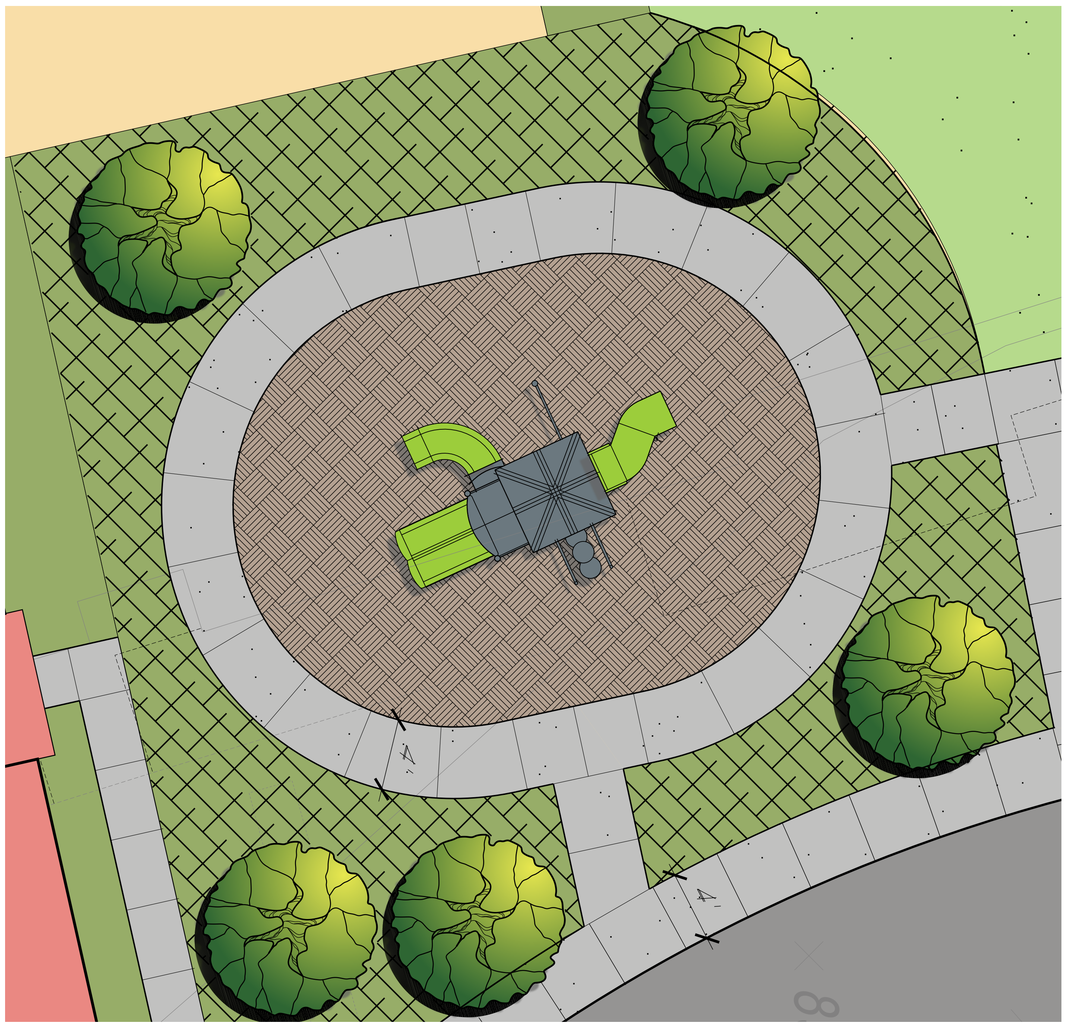
PROJECT TITLE: Tract 83141 - 875 W. Orange Grove Avenue
SCALE: -
DATE: 07/02/20
DESIGNED BY: -
DRAWN BY: -
DRAWING TITLE: LIGHTING PLAN
SHEET # 8



REVISION NO. 2

REGISTERED LANDSCAPE ARCHITECT
PATRICK J. TAZ
No. LA 3980
Exp. 3/31/22
STATE OF CALIFORNIA

SCALE 1/4" = 1'-0"

SHEET 9	PROJECT TITLE: Tract 83141 - 875 W. Orange Grove Avenue		
	SCALE: -	DESIGNED BY: -	
	DATE: 07/02/20	DRAWN BY: -	
	DRAWING TITLE: ACCESSORY STRUCTURE PLAN		

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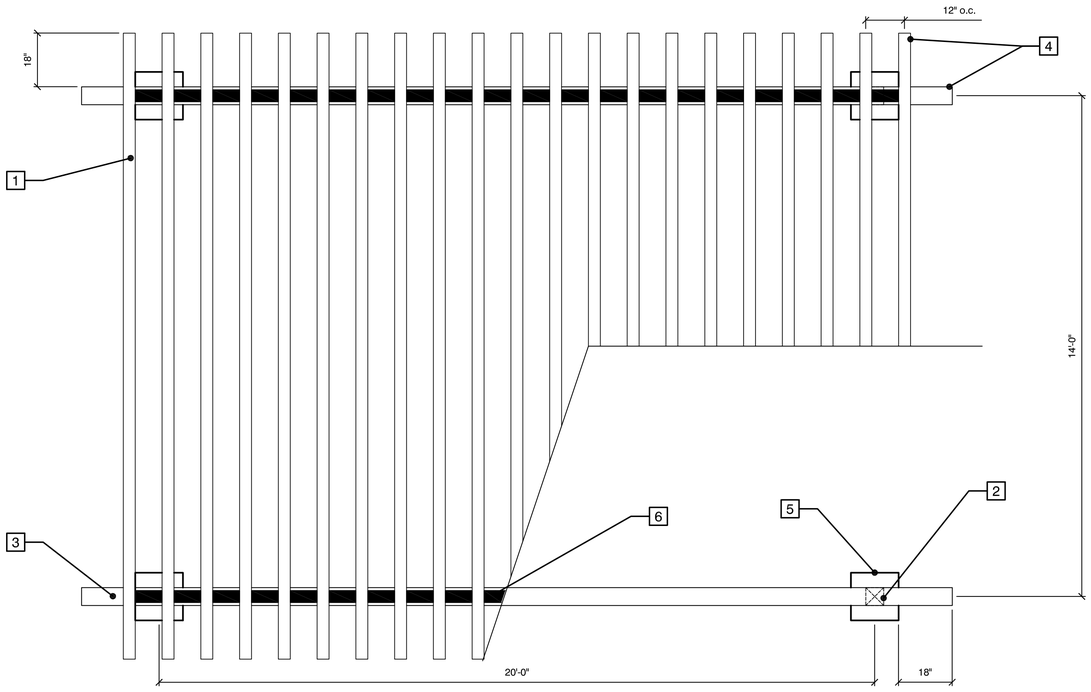
DEVELOPER OF RECORD:
CRESTWOOD COMMUNITES
510 W. CITRUS EDGE STREET
GLENDORA, CA 91740
626-914-1943

ENGINEER OF RECORD:
MADOLE & ASSOCIATES, INC.
9302 Pittsburgh Avenue, Suite 230
Rancho Cucamonga, CA 91730
909-481-6322

OWNER:
Pomona Fellowship Church of the Brethren
875 W. Orange Grove Ave
Pomona, CA 91768
909-629-2548

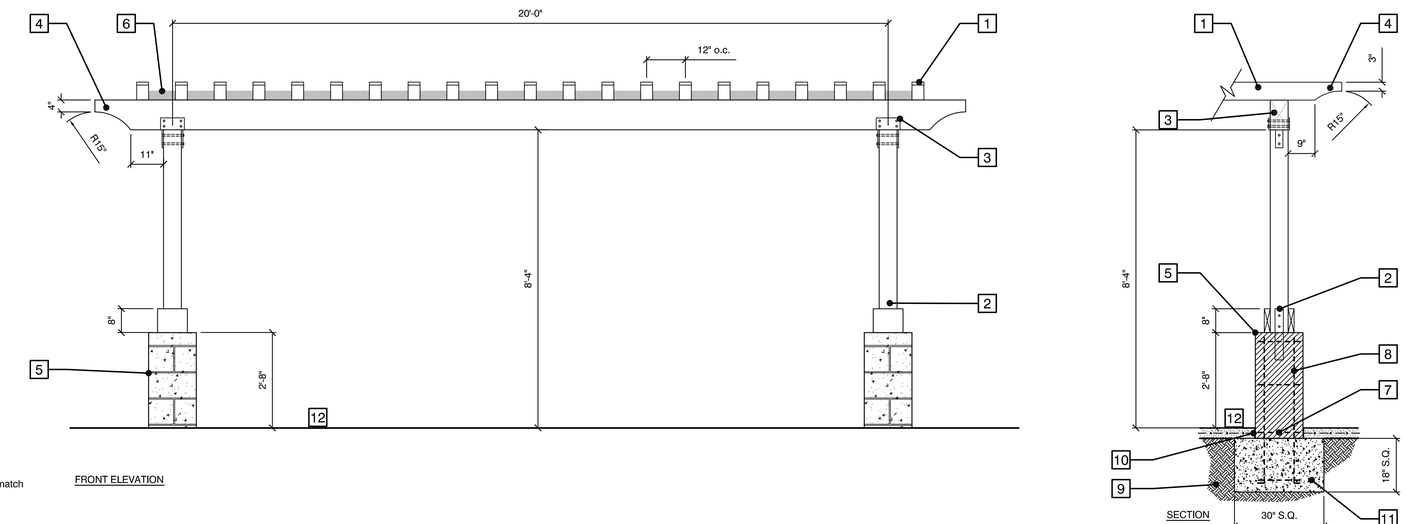
REVISION	DATE	COMMENTS
1	08.27.20	PER PLAN'G COMMENTS 09.14.20
	-	-



1. 4" x 6" D.F. wood trellis members on end @ 12" o.c.
2. 6" x 6" D.F. support post, set in column block and attached with Simpson Strong Tie Column Base-CB66
3. 6" x 10" D.F. support beams attached w/ Simpson Strong Tie Column Post-CC66 with 2-5/8" Ø nuts, bolts and washers
4. 15" radius chamfer all ends
5. 16x8x16 CMU 'Tan' split face-block column w/ 2x8 wood block to cover tie
6. 3" x 4" D.F. brace block between each trellis member

* all wood members shall be pre-painted prior to installation. paint and color to match building. contractor shall apply 'touch-up' application as needed after installation.

1 TRELLIS STRUCTURE-PLAN VIEW
SCALE: 1/2" = 1'-0"



1. 4" x 6" D.F. wood trellis members on end @ 12" o.c.
2. 6" x 6" D.F. support post, set in column block and attached with Simpson Strong Tie Column Base-CB66
3. 6" x 10" D.F. support beams attached w/ Simpson Strong Tie Column Post-CC66 with 2-5/8" Ø nuts, bolts and washers
4. 15" radius chamfer all ends
5. 16x8x16 CMU 'Tan' split face-block column w/ 2x8 wood block to cover tie
6. 3" x 4" D.F. brace block between each trellis member
7. horizontal #4 rebar at 16" o.c.
8. vertical #4 rebar at four corners
9. 90% compacted subgrade
10. expansion joint felt
11. concrete footing
12. hardscape surface (see plan)

* all wood members shall be pre-painted prior to installation. paint and color to match building. contractor shall apply 'touch-up' application as needed after installation.

2 TRELLIS STRUCTURE - ELEVATION AND SECTION
SCALE: 1/2" = 1'-0"

REGISTERED LANDSCAPE ARCHITECT
PATRICK J. DUKE
No. LA 3880
Exp. 3/31/22
STATE OF CALIFORNIA

REVISION	DATE	COMMENTS
1	08.27.20	PER PLAN'G COMMENTS 09.14.20
	-	-

OWNER:
Pomona Fellowship Church of the Brethren
875 W. Orange Grove Ave
Pomona, CA 91768
909-629-2548

ENGINEER OF RECORD:
MADOLE & ASSOCIATES, INC.
9302 Pittsburgh Avenue, Suite 230
Rancho Cucamonga, CA 91730
909-481-6322

DEVELOPER OF RECORD:
CRESTWOOD COMMUNITES
510 W. CITRUS EDGE STREET
GLENDORA, CA 91740
626-914-1943

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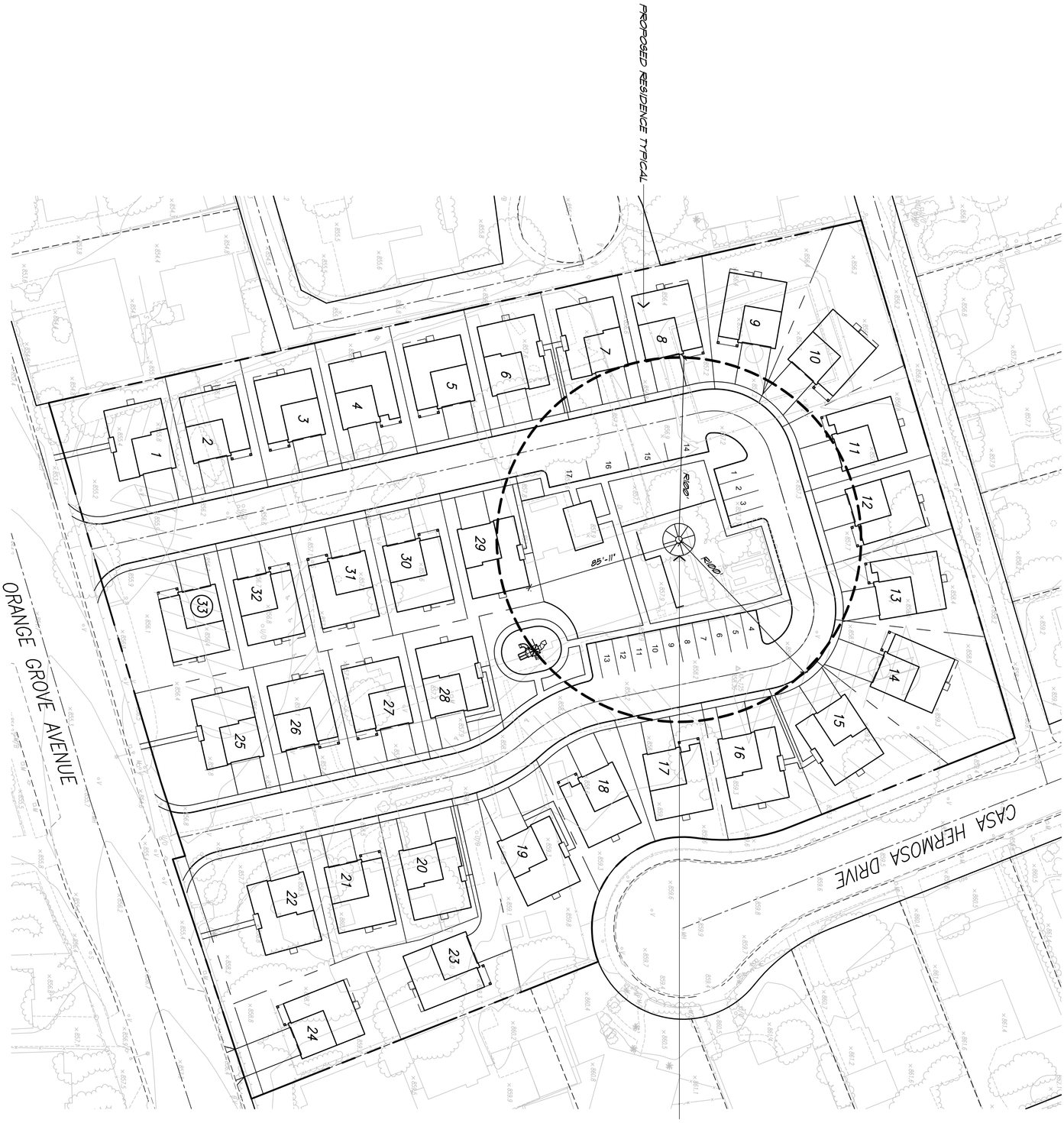
PROJECT TITLE: Tract 83141 - 875 W. Orange Grove Avenue
SCALE: -
DATE: 07/02/20
DRAWING TITLE: OVERHEAD SHADE TRELLIS
DESIGNED BY:
DRAWN BY: -
SHEET 10



REGISTERED LANDSCAPE ARCHITECT
PATRICK D. DIAZ
No. LA 3880
Exp. 3/31/22
STATE OF CALIFORNIA

SCALE: 1" = 30'

SHEET: 1 of 1

PROJECT TITLE: Tract 83141 - 875 W. Orange Grove Avenue

SCALE: -

DESIGNED BY: -

DATE: 07/02/20

DRAWN BY: -

DRAWING TITLE: CELL TOWER RADIUS

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DEVELOPER OF RECORD:
CRESTWOOD COMMUNITES
510 W. CITRUS EDGE STREET
GLENDORA, CA 91740
626-914-1943

ENGINEER OF RECORD:
MADOLE & ASSOCIATES, INC.
9302 Pittsburgh Avenue, Suite 230
Rancho Cucamonga, CA 91730
909-481-6322

OWNER:
Pomona Fellowship Church of the Brethren
875 W. Orange Grove Ave
Pomona, CA 91768
909-629-2548

REVISION	DATE	COMMENTS
1	08.27.20	PER PLAN'G COMMENTS 09.14.20
	-	-

83141 - Pomona 33
Driveway Summary Sheet

lot	width	length
1	16'	18'
2	16'	18'
3	16'	18'
4	16'	18'
5	16'	18'
6	16'	18'
7	16'	18'
8	16'	18'
9	16'	24'-9"
10	16'	24'-4"
11	16'	19'-8"
12	16'	18'
13	16'	19'
14	16'	27'
15	16'	18'3"
16	16'	18'
17	16'	18'
18	16'	20'
19	16'	25'
20	16'	18'
21	16'	18'
22	16'	18'
23	16'	83'
24	16'	33'
25	16'	18'
26	16'	18'
27	16'	18'
28	16'	18'
29	16'	18'
30	16'	18'
31	16'	18'
32	16'	18'
33	16'	18'

PROPOSED NATURAL GRAY CONCRETE DRIVEWAY MINIMUM 18'-0" IN LENGTH TO ACCOMMODATE 2 QUEST PARKING - TYPICAL

SCALE: 1" = 20'

REGISTERED LANDSCAPE ARCHITECT
PATRICK J. DIAZ
No. LA 3880
Exp. 3/31/22
STATE OF CALIFORNIA

REVISION	DATE	COMMENTS
1	08.27.20	PER PLANG COMMENTS 09.14.20

OWNER:
Pomona Fellowship Church of the Brethren
875 W. Orange Grove Ave
Pomona, CA 91768
909-629-2548

ENGINEER OF RECORD:
MADOLE & ASSOCIATES, INC.
9302 Pittsburgh Avenue, Suite 230
Rancho Cucamonga, CA 91730
909-481-6322

DEVELOPER OF RECORD:
CRESTWOOD COMMUNITES
510 W. CITRUS EDGE STREET
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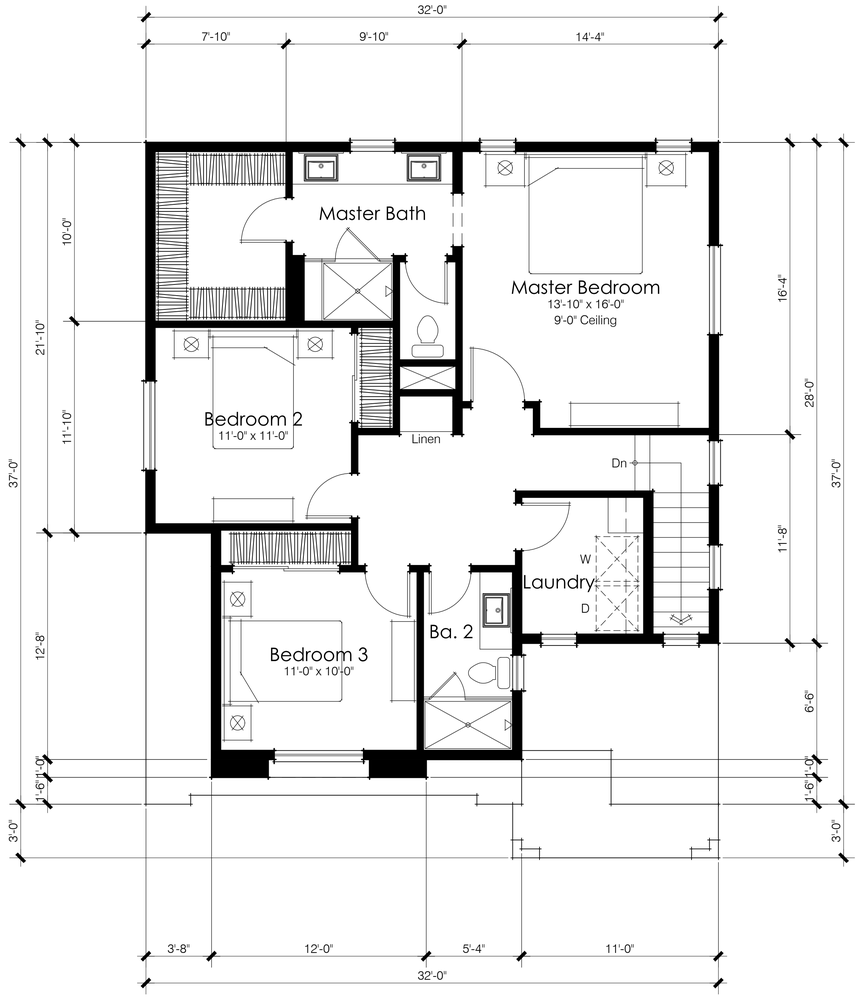
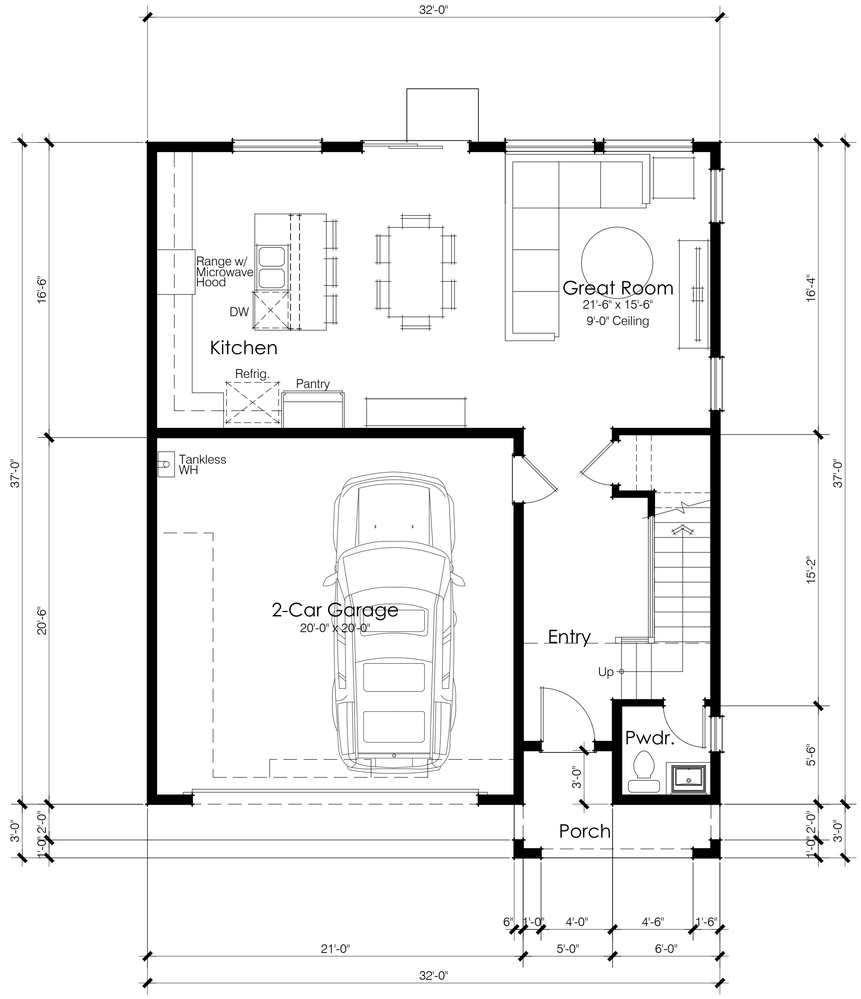
PROJECT TITLE: Tract 83141 - 875 W. Orange Grove Avenue
SCALE:
DATE: 07/02/20
DESIGNED BY: -
DRAWN BY: -
DRAWING TITLE:

DRIVEWAY DIMENSION PLAN

SHEET 12





Second Floor Plan

Occupancy Group	R-3 / U
Type Of Construction	VB
Stories	2
Fire Sprinklers	Yes - NFPA 13D

First Floor Plan

First Floor	747 sq. ft.
Second Floor	940 sq. ft.
Total:	1,687 sq. ft.
Garage	422 sq. ft.

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CrestWood COMMUNITIES

Pomona 34

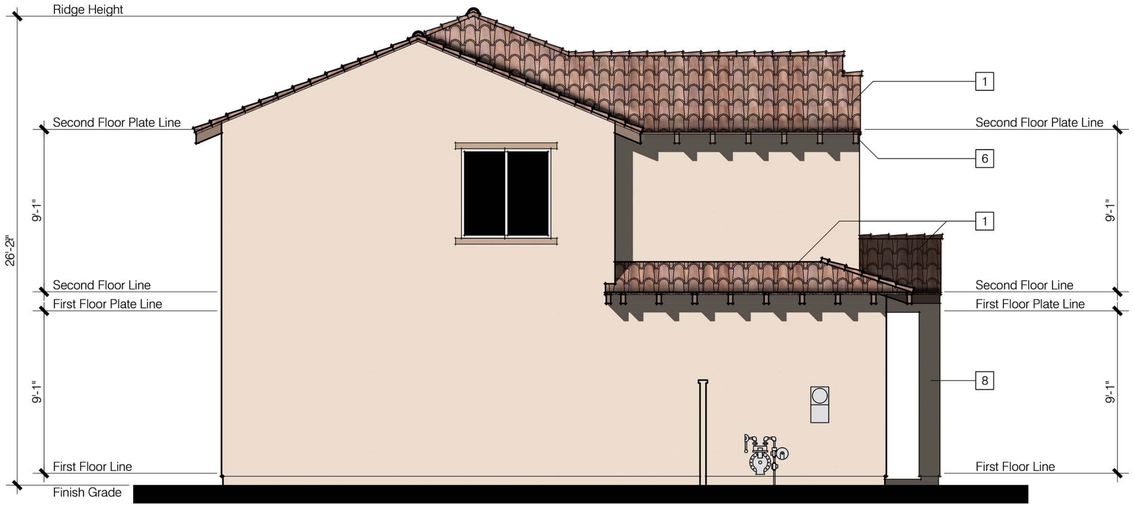
Title
Plan 1
Conceptual
Floor Plan

Date
January 20, 2020
Project Number
4437
Scale
1/4" = 1'-0"
Revision

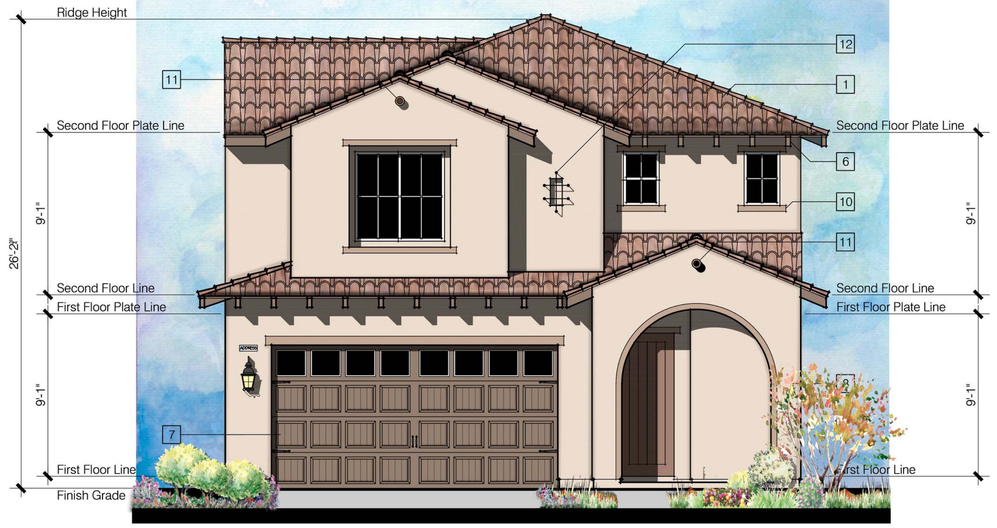
Sheet No.
A-1

Right Elevation

Rear Elevation



Left Elevation



Front Elevation

Scheme 1

Color & Material Boards

See sheet A-13 for the Exterior Color and Material Palette.

Exterior Elevation Material Legend

Key	Material
1	Concrete 'S' Roof Tile
2	5 : 12 Roof Pitch
3	Flush Rakes
4	Wood Fascias
5	18" Eaves
6	3x6 Wood Rafter Tails At 24" o.c.
7	Metal Sectional Garage Door With Optional Glass Top Panels
8	Stucco Finish
9	Multi-Paned Windows
10	Foam Door & Window Trim With Stucco Over - On Stucco Walls
11	EPS Foam Pipe Vent Cover
12	Wrought Iron Detail Over The Stucco Reccess

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Pomona 34

Title
Plan 1
Conceptual
Elevation 'A'
Spanish

Date
January 20, 2020

Project Number
4437

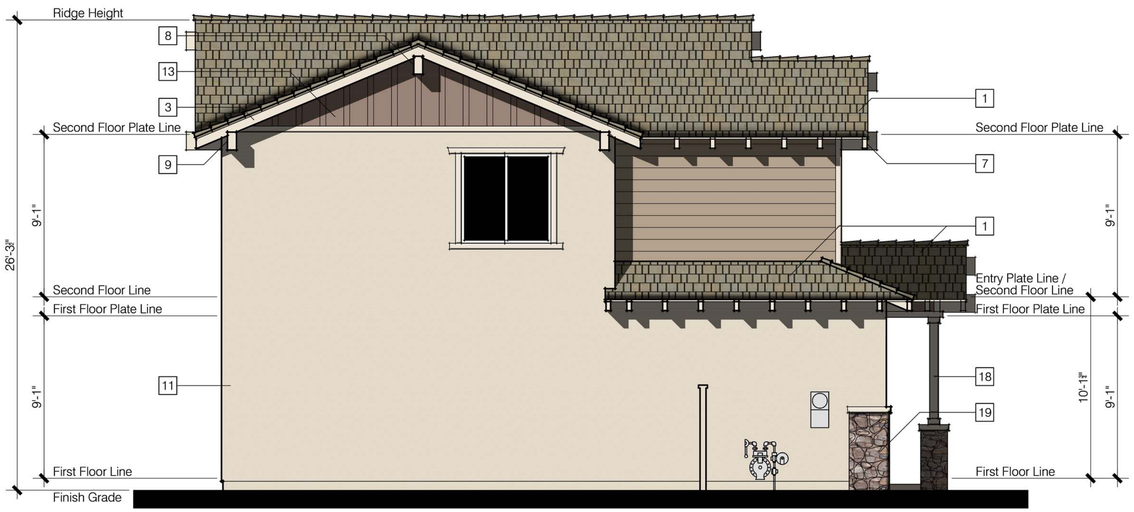
Scale
1/4" = 1'-0"

Revision
9-2-2020

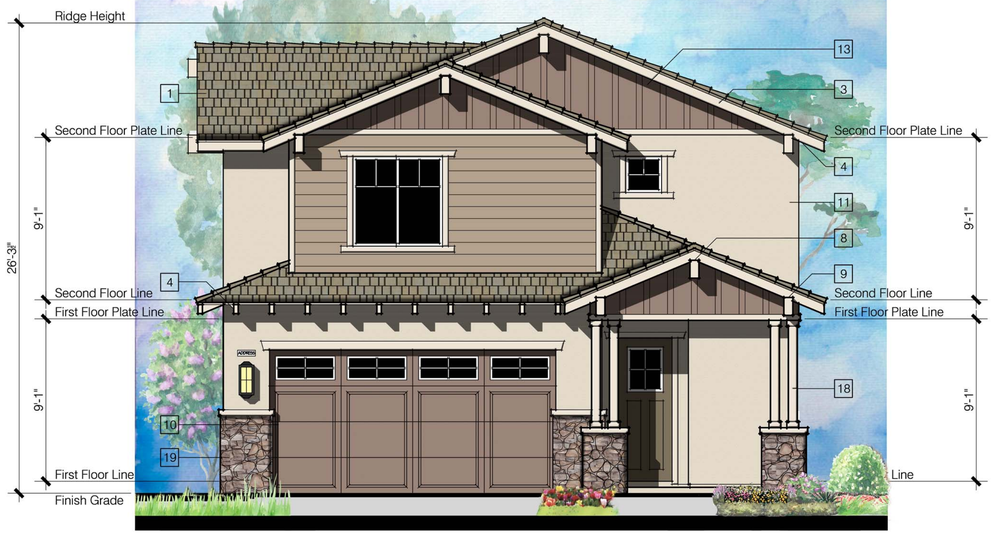
Sheet No.
A-2

Right Elevation

Rear Elevation



Left Elevation



Front Elevation

Scheme 4

Color & Material Boards

See sheet A-13 for the Exterior Color and Material Palette.

Exterior Elevation Material Legend

Key	Material
1	Concrete 'Flat' Roof Tile
2	5 : 12 Roof Pitch
3	Wood Barges
4	18" Rakes
5	Wood Fascias
6	18" Eaves
7	3x6 Wood Rafter Tails At 24" o.c.
8	6x12 Wood False Ridge Beams
9	6x12 Wood Outlookers
10	Metal Sectional Garage Door With Optional Glass Top Panels
11	Stucco Finish
12	Fiber Cement Horizontal Lap Siding
13	Fiber Cement Board & Batt Siding At Gable Ends
14	Multi-Paned Windows
15	Foam Door & Window Trim With Stucco Over - On Stucco Walls
16	Wood Door & Window Trim - On Siding Walls
17	Wood Framed Potshelves
18	Wood Posts On Synthetic Stone Veneer Bases At The Entry
19	Synthetic Stone Veneer With A Pre-Cast Concrete Cap Grouted Finish Around Each Stone And Stone To Be Taken To Grade Below The Weepscreed.

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CrestWood COMMUNITIES

Pomona 34

Title
Plan 1
Conceptual
Elevation 'B'
Craftsman

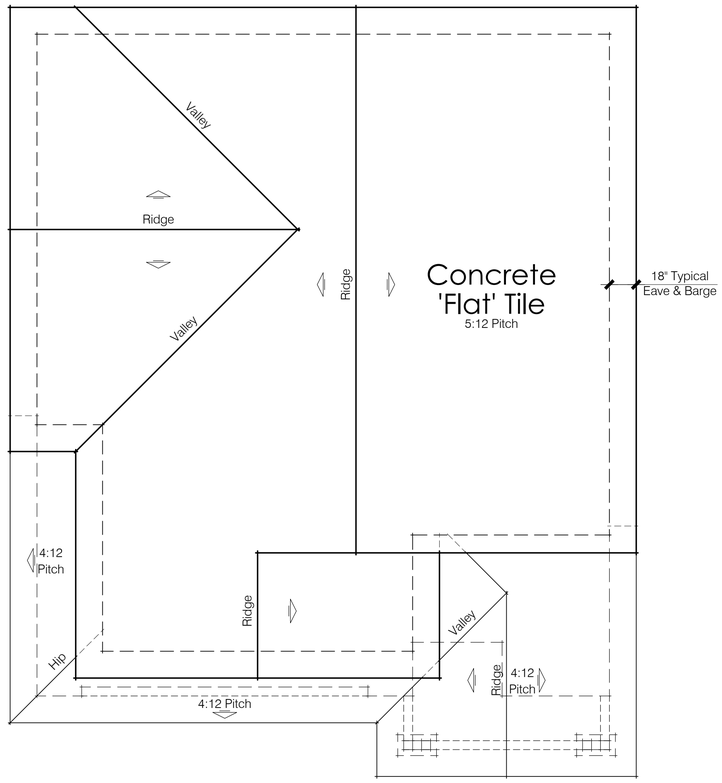
Date
January 20, 2020

Project Number
4437

Scale
1/4" = 1'-0"

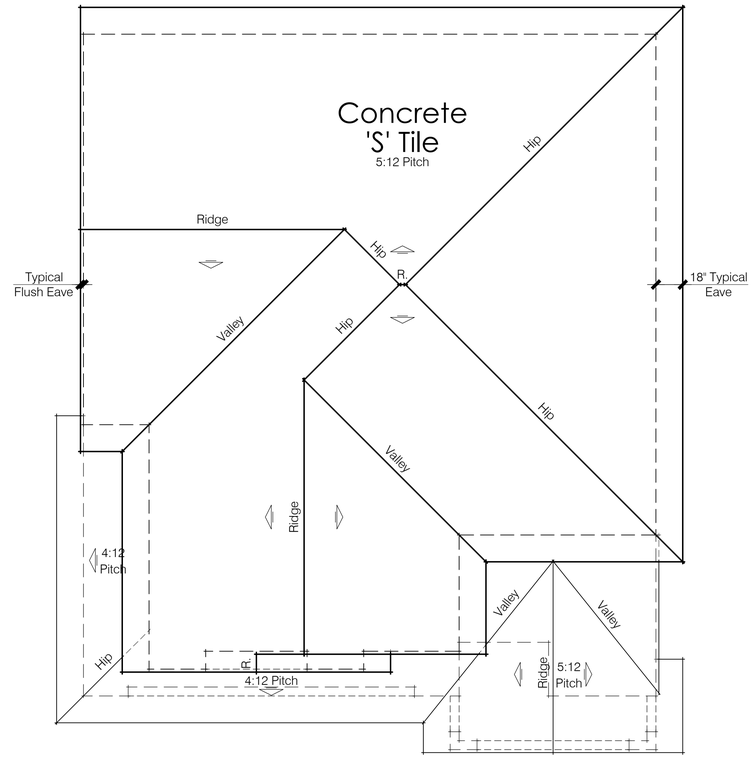
Revision
9-2-2020

Sheet No.
A-3



Roof Plan 'B'

SCALE: 1/4"=1'-0"



Roof Plan 'A'

SCALE: 1/4"=1'-0"

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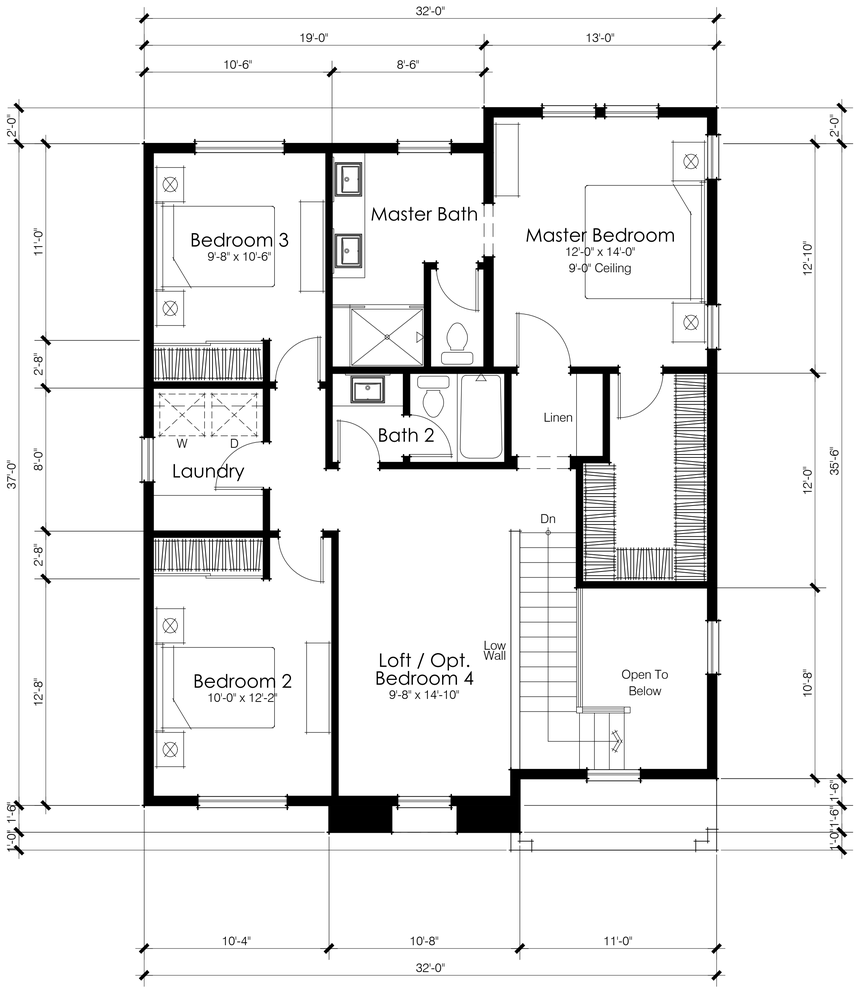
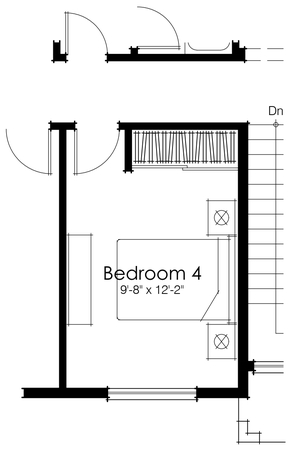
CrestWood COMMUNITIES
Pomona 34

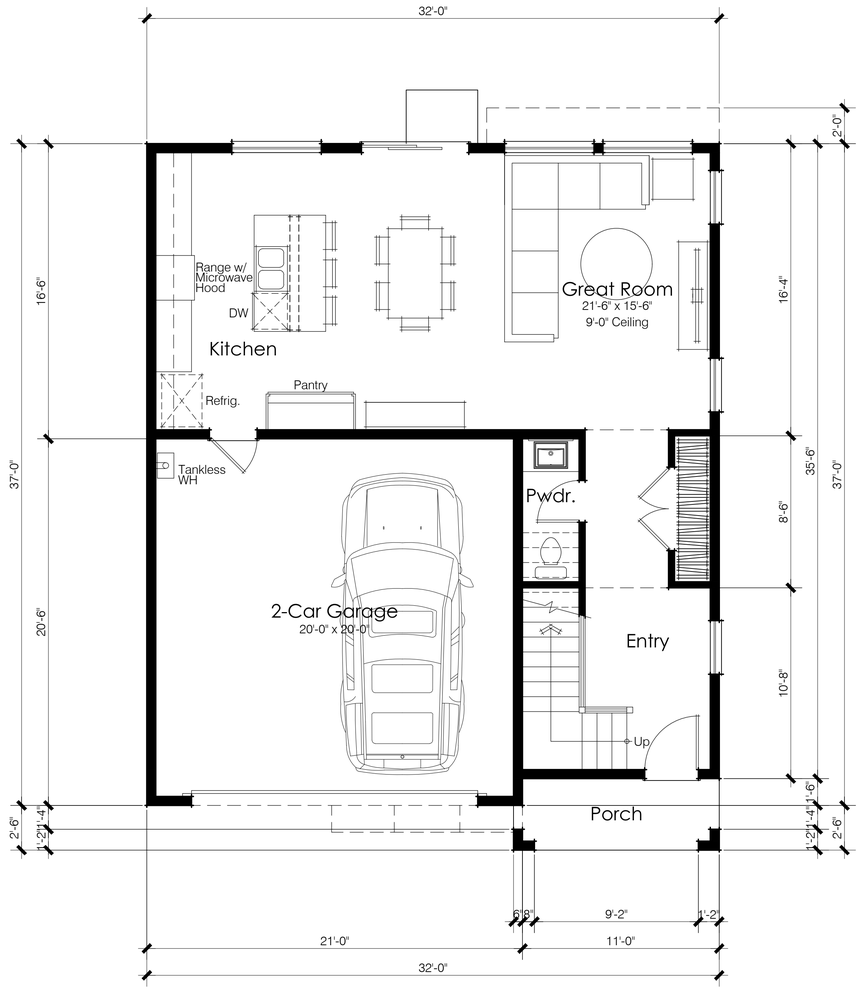
Title
Plan 1
Conceptual
Roof Plans

Date
January 20, 2020
Project Number
4437
Scale
1/4" = 1'-0"
Revision
9-2-2020

Sheet No.
A-4







Second Floor Plan

Occupancy Group	R-3 / U
Type Of Construction	VB
Stories	2
Fire Sprinklers	Yes - NFPA 13D

First Floor Plan

First Floor	747 sq. ft.
Second Floor	1,066 sq. ft.
Total:	1,813 sq. ft.
Garage	420 sq. ft.

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CrestWood COMMUNITIES

Pomona 34

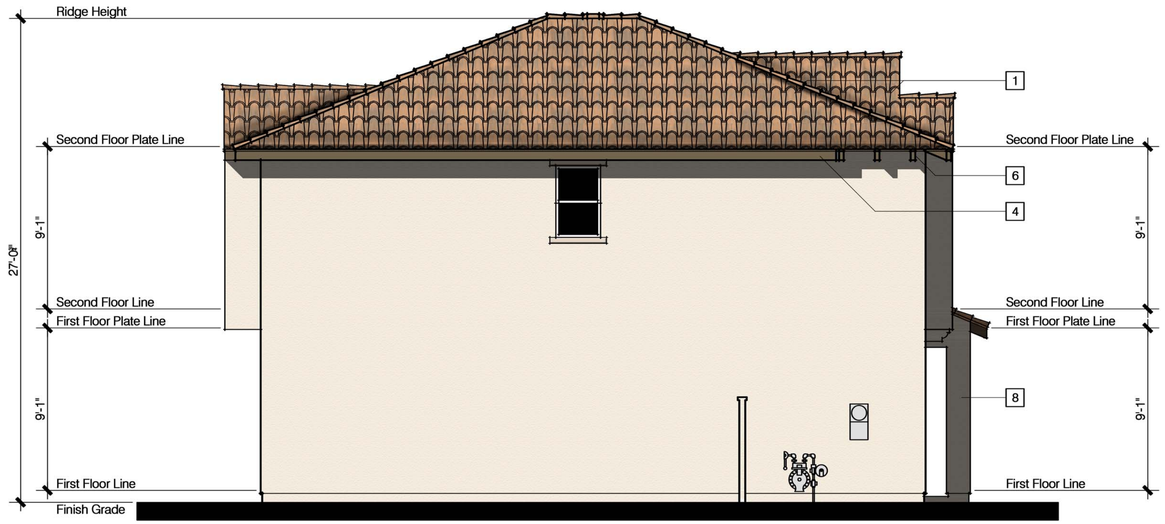
Title
Plan 2
Conceptual
Floor Plan

Date
January 20, 2020
Project Number
4437
Scale
1/4" = 1'-0"
Revision
9-2-2020

Sheet No.
A-5

Right Elevation

Rear Elevation



Left Elevation

Front Elevation

Scheme 2

Color & Material Boards

See sheet A-13 for the Exterior Color and Material Palette.

Exterior Elevation Material Legend

Key	Material
1	Concrete 'S' Roof Tile
2	5 : 12 Roof Pitch
3	Flush Rakes
4	Wood Fascias
5	12" Eaves
6	3x6 Wood Rafter Tails At 24" o.c.
7	Metal Sectional Garage Door With Optional Glass Top Panels
8	Stucco Finish
9	Multi-Paned Windows
10	Foam Door & Window Trim With Stucco Over - On Stucco Walls
11	EPS Foam Pipe Vent Cover
12	EPS Foam Shutters
13	Stucco Over Foam Corbels

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CrestWood COMMUNITIES

Pomona 34

Title
Plan 2
Conceptual
Elevation 'A'
Spanish

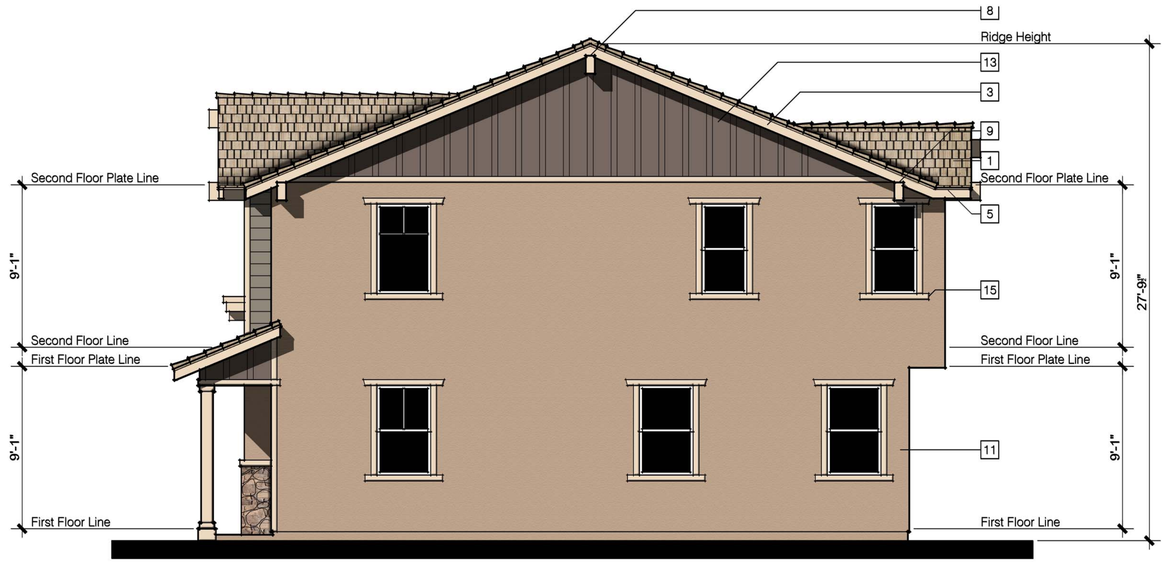
Date
January 20, 2020

Project Number
4437

Scale
1/4" = 1'-0"

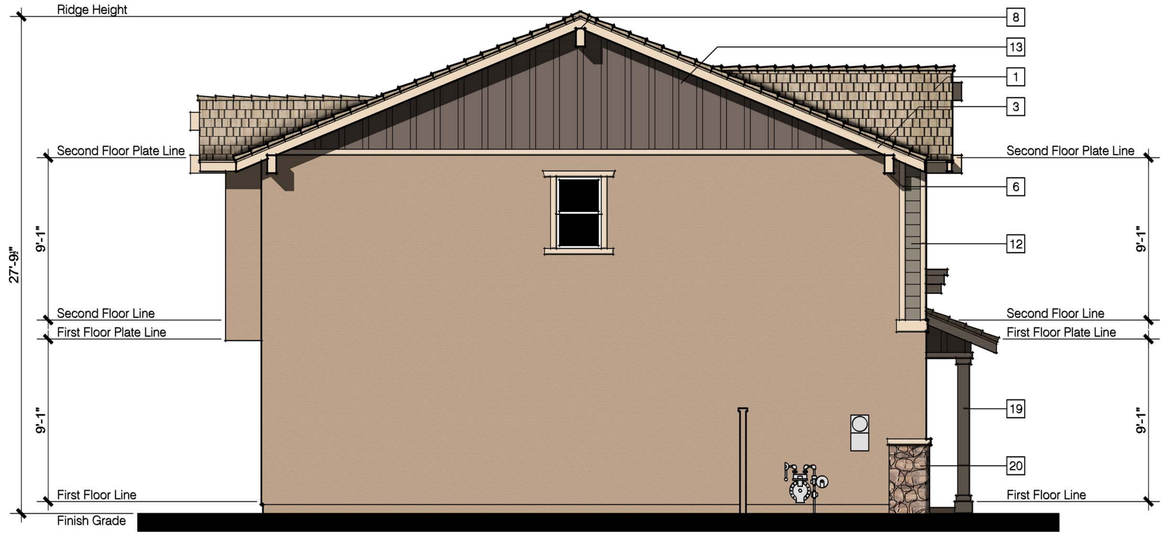
Revision
9-2-2020

Sheet No.
A-6

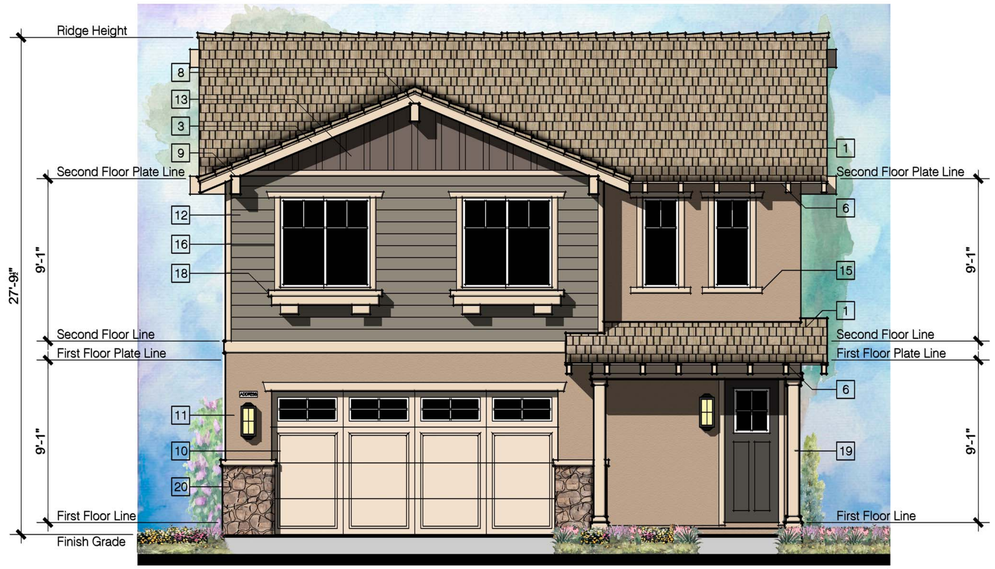


Right Elevation

Rear Elevation



Left Elevation



Front Elevation

Color & Material Boards — Scheme 5

See sheet A-13 for the Exterior Color and Material Palette.

Exterior Elevation Material Legend

Key	Material
1	Concrete 'Flat' Roof Tile
2	5 : 12 Roof Pitch
3	Wood Barges
4	18" Rakes
5	Wood Fascias
6	18" Eaves
7	3x6 Wood Rafter Tails At 24" o.c.
8	6x12 Wood False Ridge Beams
9	6x12 Wood Outlookers
10	Metal Sectional Garage Door With Optional Glass Top Panels
11	Stucco Finish
12	Fiber Cement Horizontal Lap Siding
13	Fiber Cement Board & Batt Siding At Gable Ends
14	Multi-Paned Windows
15	Foam Door & Window Trim With Stucco Over - On Stucco Walls
16	Wood Door & Window Trim - On Siding Walls
17	Stucco Over Foam Corbels
18	Wood Framed Potshelves
19	Wood Posts At The Entry
20	Synthetic Stone Veneer With A Pre-Cast Concrete Cap Grouted Finish Around Each Stone And Stone To Be Taken To Grade Below The Weepscreed.

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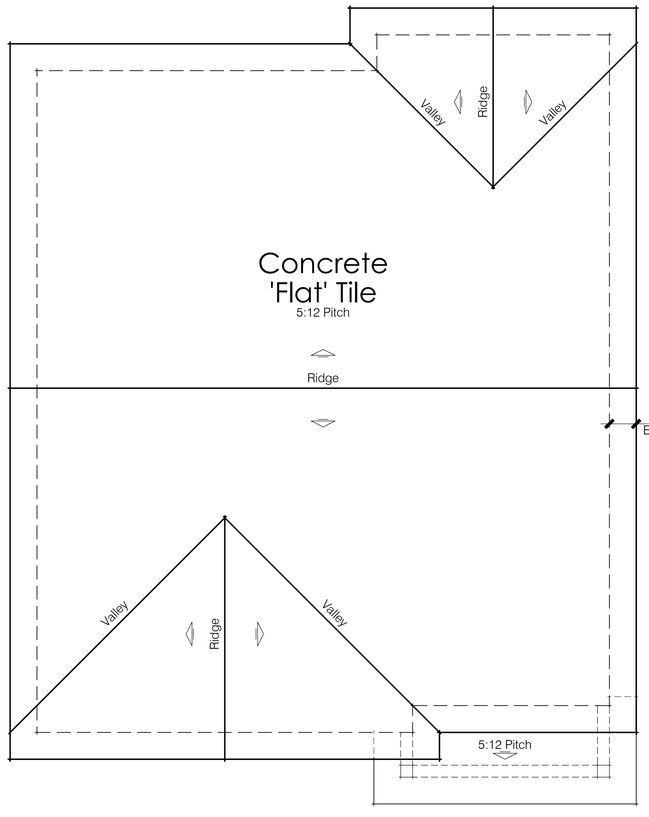
CrestWood COMMUNITIES

Pomona 34

Title
Plan 2
Conceptual
Elevation 'B'
Craftsman

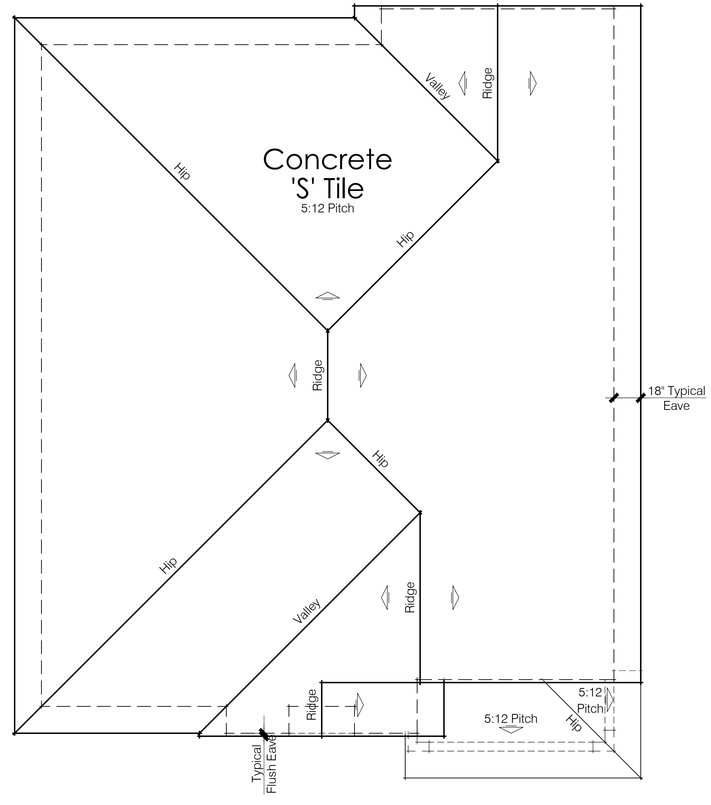
Date
January 20, 2020
Project Number
4437
Scale
1/4" = 1'-0"
Revision
9-2-2020

Sheet No.
A-7



Roof Plan 'B'

SCALE: 1/4"=1'-0"



Roof Plan 'A'

SCALE: 1/4"=1'-0"

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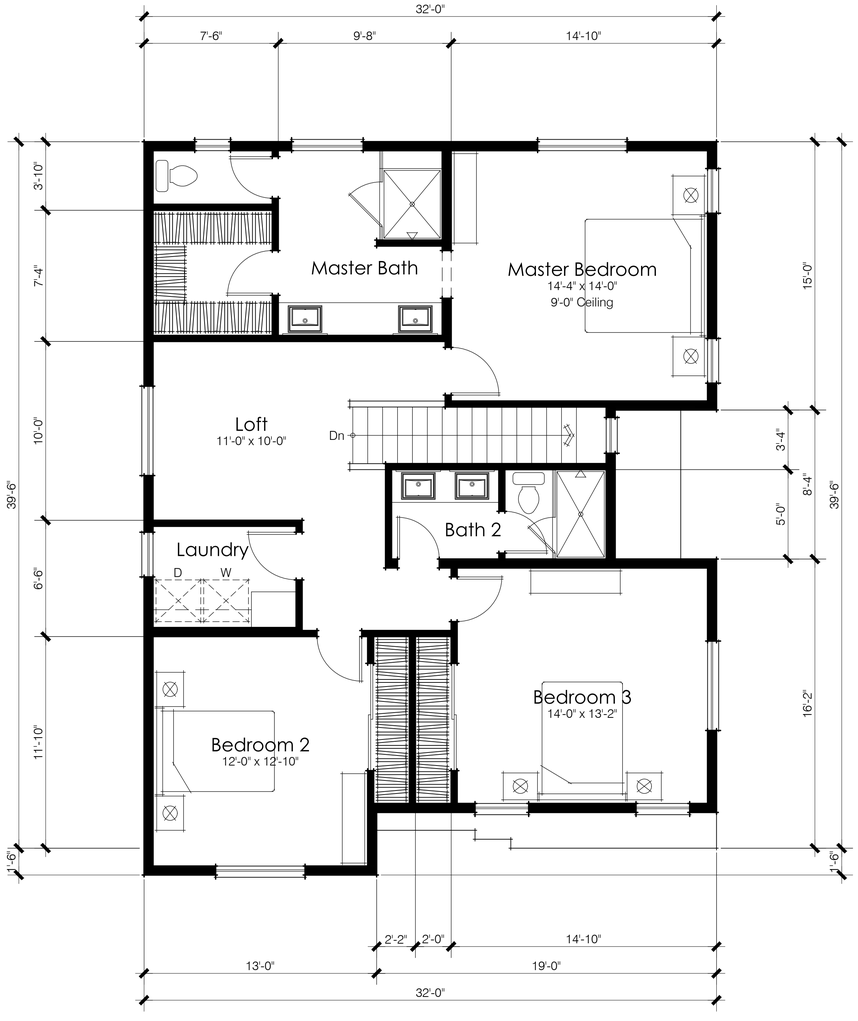
CrestWood COMMUNITIES

Pomona 34

Title
Plan 2
Conceptual
Roof Plan

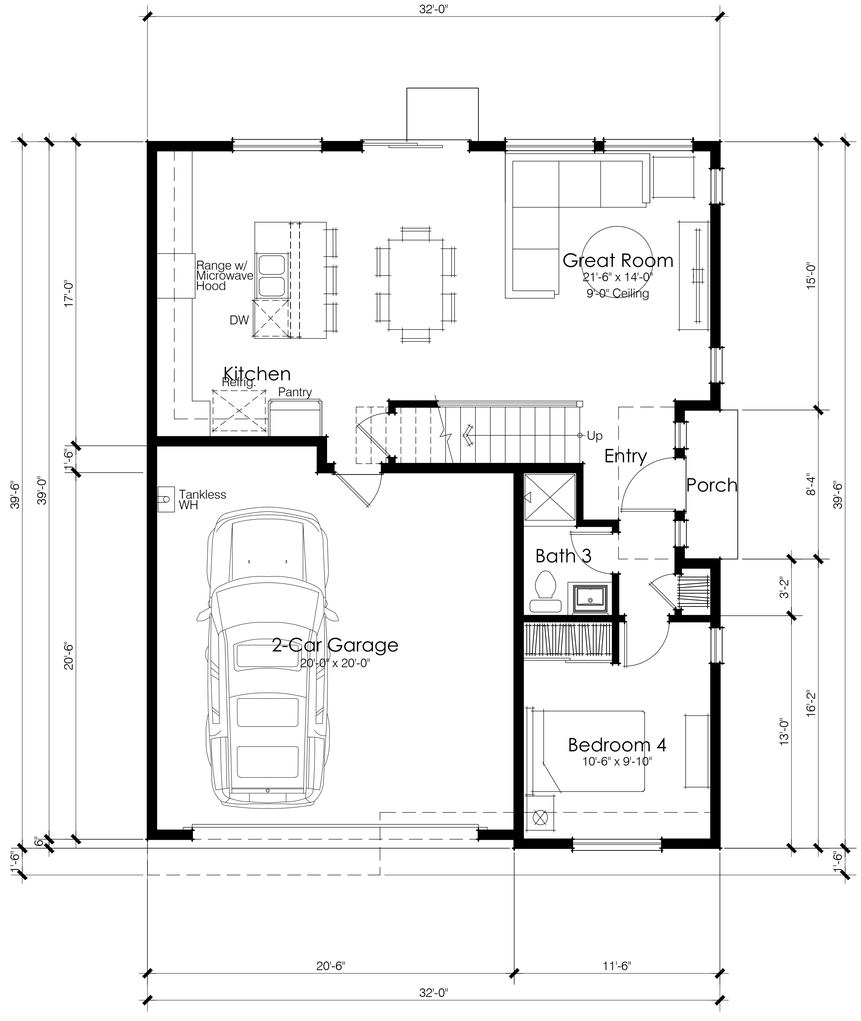
Date
January 20, 2020
Project Number
4437
Scale
1/4" = 1'-0"
Revision
9-2-2020

Sheet No.
A-8



Second Floor Plan

Occupancy Group	R-3 / U
Type Of Construction	VB
Stories	2
Fire Sprinklers	Yes - NFPA 13D



First Floor Plan

First Floor	803 sq. ft.
Second Floor	1,152 sq. ft.
Total:	1,955 sq. ft.
Garage	435 sq. ft.

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CrestWood COMMUNITIES

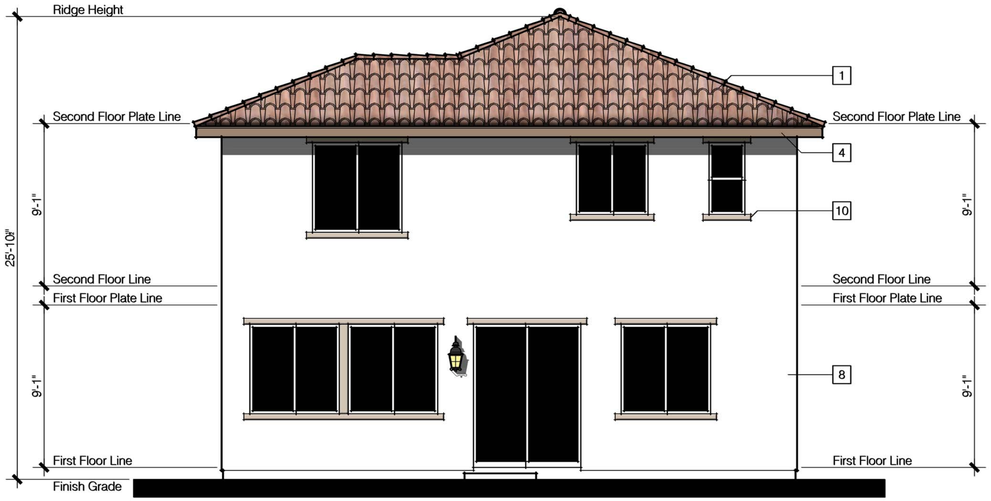
Pomona 34

Title
Plan 3
Conceptual
Floor Plan

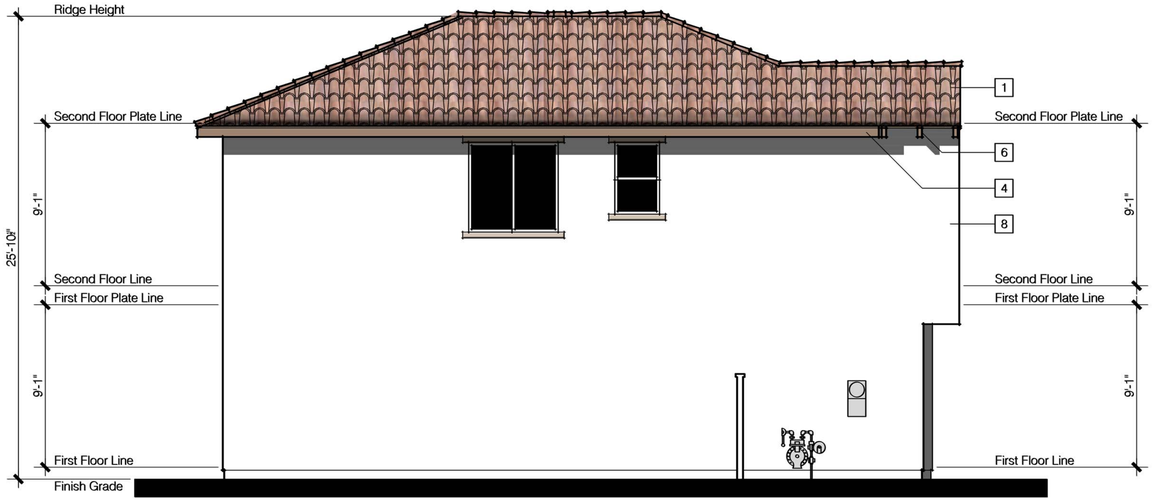
Date
January 20, 2020
Project Number
4437
Scale
1/4" = 1'-0"
Revision
1-29-2020

Sheet No.
A-9

Right Elevation



Rear Elevation



Left Elevation

Front Elevation

Color & Material Boards Scheme 3

See sheet A-13 for the Exterior Color and Material Palette.

Exterior Elevation Material Legend

Key	Material
1	Concrete 'S' Roof Tile
2	5 : 12 Roof Pitch
3	Flush Rakes
4	Wood Fascias
5	18" Eaves
6	3x6 Wood Rafter Tails At 24" o.c.
7	Metal Sectional Garage Door With Optional Glass Top Panels
8	Stucco Finish
9	Multi-Paned Windows
10	Foam Door & Window Trim With Stucco Over - On Stucco Walls
11	EPS Foam Pipe Vent Cover
12	EPS Foam Shutters
13	Stucco Over Foam Corbels
14	Wrought Iron Potshelves

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CrestWood COMMUNITIES

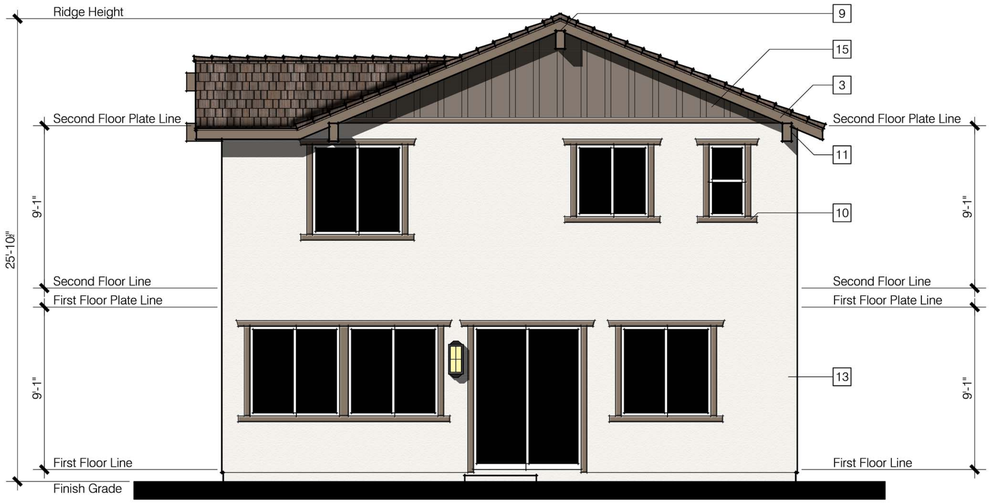
Pomona 34

Title
Plan 3
Conceptual
Elevation 'A'
Spanish

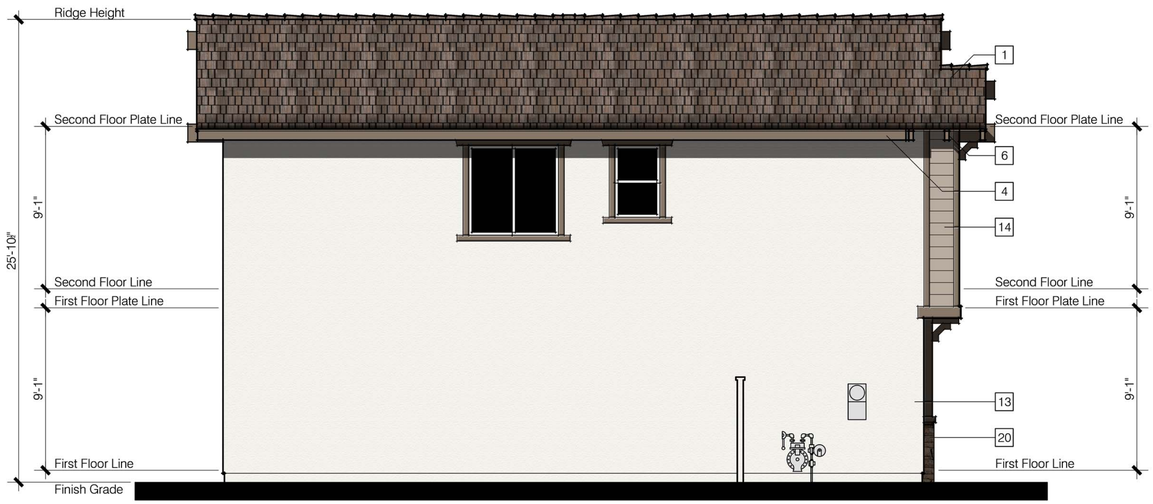
Date
January 20, 2020
Project Number
4437
Scale
1/4" = 1'-0"
Revision
9-2-2020

Sheet No.
A-10

Right Elevation



Rear Elevation



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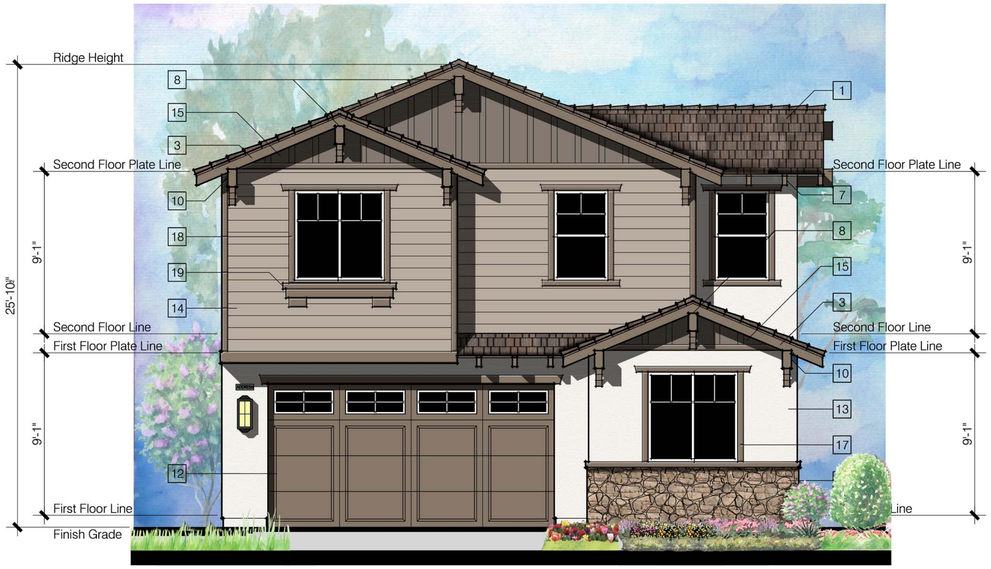

Front Elevation

Scheme 6

Color & Material Boards

See sheet A-13 for the Exterior Color and Material Palette.

Exterior Elevation Material Legend

Key	Material
1	Concrete 'Flat' Roof Tile
2	5 : 12 Roof Pitch
3	Wood Barges
4	18" Rakes
5	Wood Fascias
6	18" Eaves
7	3x6 Wood Rafter Tails At 24" o.c.
8	6x12 Wood False Ridge Beams With Angled Bracket
9	6x12 Wood False Ridge Beams
10	6x12 Wood Outlookers With Angled Bracket
11	6x12 Wood Outlookers
12	Metal Sectional Garage Door With Optional Glass Top Panels
13	Stucco Finish
14	Fiber Cement Horizontal Lap Siding
15	Fiber Cement Board & Batt Siding At Gable Ends
16	Multi-Paned Windows
17	Foam Door & Window Trim With Stucco Over - On Stucco Walls
18	Wood Door & Window Trim - On Siding Walls
19	Wood Framed Potshelves
20	Synthetic Stone Veneer With A Pre-Cast Concrete Cap Grouted Finish Around Each Stone And Stone To Be Taken To Grade Below The Weepscreed.

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Pomona 34

Title
Plan 3
Conceptual
Elevation 'B'
Craftsman

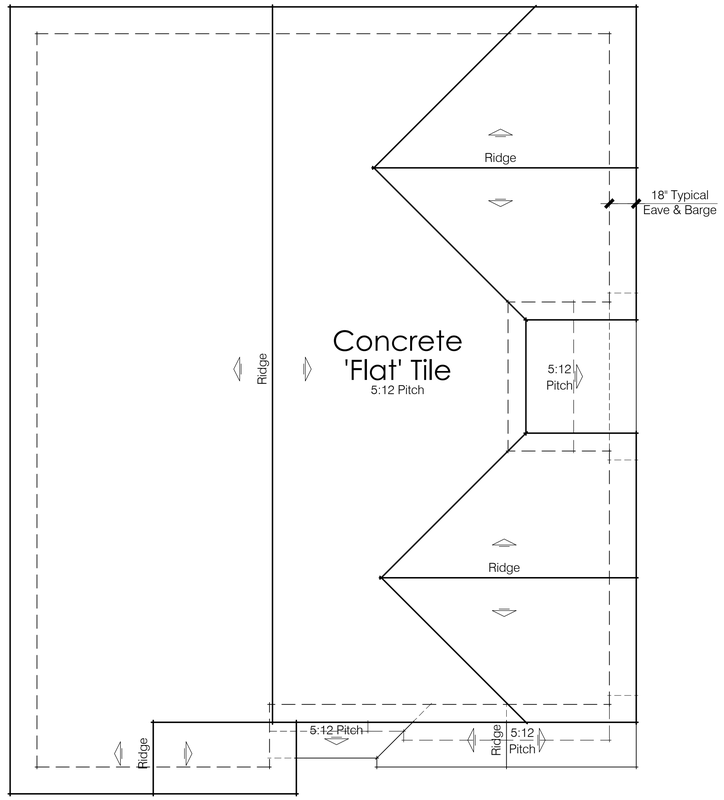
Date
January 20, 2020

Project Number
4437

Scale
1/4" = 1'-0"

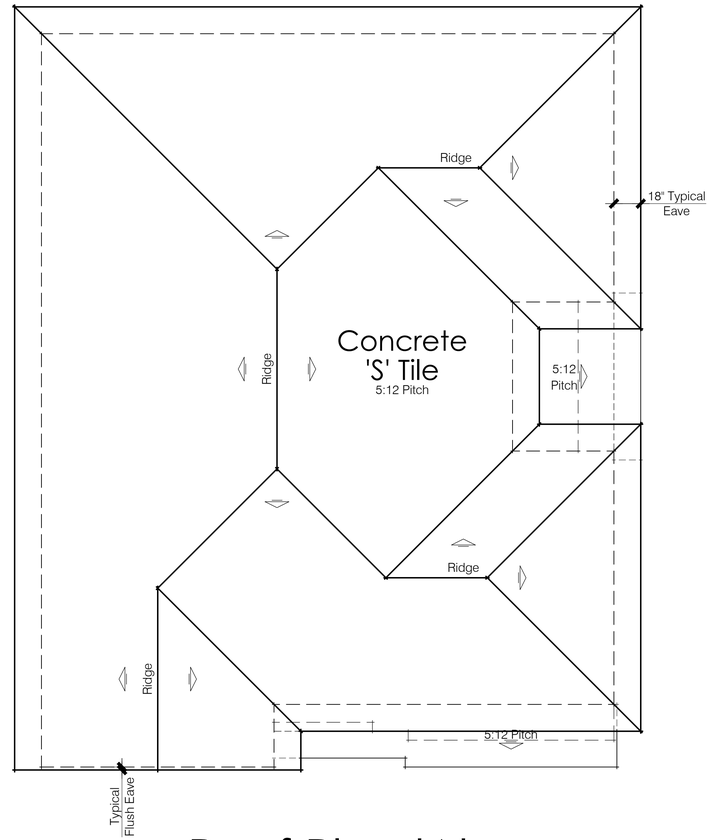
Revision
9-2-2020

Sheet No.
A-11



Roof Plan 'B'

SCALE: 1/4"=1'-0"



Roof Plan 'A'

SCALE: 1/4"=1'-0"

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Pomona 34

Title
Plan 3
Conceptual
Roof Plan

Date
January 20, 2020
Project Number
4437
Scale
1/4" = 1'-0"
Revision
9-2-2020

Sheet No.
A-12

Appendix B

Air Quality and Greenhouse Gas Emissions Memorandum

875 West Orange Grove Avenue Project

Air Quality and Greenhouse Gas Study

prepared for

City of Pomona
505 South Garey Avenue
Pomona, California 91769
Contact: Vinny Tam

prepared by

Rincon Consultants, Inc.
250 East 1st Street, Suite 1400
Los Angeles, California 90012

December 2020

RINCON CONSULTANTS, INC.
Environmental Scientists | Planners | Engineers
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1 Project Description and Impact Summary

1.1 Introduction

This study analyzes the potential air quality and greenhouse gas (GHG) impacts of the proposed 875 West Orange Grove Avenue project (herein referred to as "proposed project" or "project") in Pomona, California. Rincon Consultants, Inc. (Rincon) prepared this study under contract for the City of Pomona to use in support of the environmental documentation being prepared pursuant to the California Environmental Quality Act (CEQA). The purpose of this study is to analyze the project's air quality and GHG impacts related to both temporary construction activity and long-term operation of the project. The conclusions of this study are summarized in Table 1, followed by the Regulatory Compliance Measures (RCMs) required for the project.

Table 1 Summary of Impacts

Impact Statement	Proposed Project's Level of Significance	Applicable RCMs
Air Quality		
Conflict with or obstruct implementation of the applicable air quality plan?	Less than significant impact	None
Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard?	Less than significant impact	RCM-1 and RCM-3 through RCM-5
Expose sensitive receptors to substantial pollutant concentrations?	Less than significant impact	None
Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	Less than significant impact	RCM-2
Greenhouse Gas Emissions		
Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?	Less than significant impact	None
Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs?	Less than significant impact	None

Regulatory Compliance Measures

RCMs are existing requirements and reasonably anticipated standard conditions that are based on local, State, or federal regulations and laws that are frequently required independently of CEQA review and serve to offset or prevent specific impacts. RCMs are not included as mitigation measures in the environmental clearance document because the project is required to comply with RCMs through State and local regulations.

RCM-1 Demolition, Grading, and Construction Activities: Compliance with Provisions of SCAQMD Rule 403

The project shall comply with all applicable standards of the Southern California Air Quality Management District (SCAQMD), including the following provisions of Rule 403:

- All unpaved demolition and construction areas shall be wetted at least twice daily during excavation and construction, and temporary dust covers shall be used to reduce dust emissions and meet SCAQMD Rule 403. Wetting could reduce fugitive dust by as much as 50 percent.
- The construction area shall be kept sufficiently dampened to control dust caused by grading and hauling, and at all times provide reasonable control of dust caused by wind.
- All clearing, earth moving, or excavation activities shall be discontinued during periods of high winds (i.e., greater than 15 mph), in order to prevent excessive amounts of dust.
- All dirt/soil shall be secured by trimming, watering, or other appropriate means to prevent spillage and dust.
- All dirt/soil materials transported off-site shall be either sufficiently watered or securely covered to prevent excessive amounts of dust.
- General contractors shall maintain and operate construction equipment to minimize exhaust emissions.
- Trucks having no current hauling activity shall not idle but be turned off.

RCM-2 Odors: Compliance with Provisions of SCAQMD Rule 402

The project shall comply with the following provision of SCAQMD Rule 402: a person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.

RCM-3 Engine Idling

In accordance with Section 2485 of Title 13 of the California Code of Regulations, the idling of all diesel-fueled commercial vehicles (weighing over 10,000 pounds) during construction shall be limited to five minutes at any location.

RCM-4 Emission Standards

In accordance with Section 93115 of Title 17 of the California Code of Regulations, operation of any stationary, diesel-fueled, compression-ignition engines shall meet specified fuel and fuel additive requirements and emission standards.

RCM-5 Architectural Coatings: Compliance with SCAQMD Rule 1113

The project shall comply with SCAQMD Rule 1113 limiting the volatile organic compound (VOC) content of architectural coatings.

1.2 Project Summary

Project Location

The 3.6-acre project site (Assessor Parcel Numbers [APN] 8358-009-006, 8358-009-009, and 9358-009-010) is located in the City of Pomona at 875 West Orange Grove Avenue (see Figure 1 and Figure 2). The project site is zoned single family (R-1-6000) with a General Plan Land Use designation of Single Family Residential within the Pomona General Plan Area. The project site is currently developed with church uses and associated paved parking, recreation courts, and landscaped areas.

See Figure 1 and Figure 2 for the project site location in a regional context and local context, respectively.

The surrounding area consists of single-family and multi-family residential uses immediately north, east and west of the project boundary, and single-family residences to the south along West Orange Grove Avenue. The properties to the north, west, east and south of the project site are zoned R-1-6000. Interstate 10 (I-10) is located approximately 0.2 mile north of the project site.

Project Description

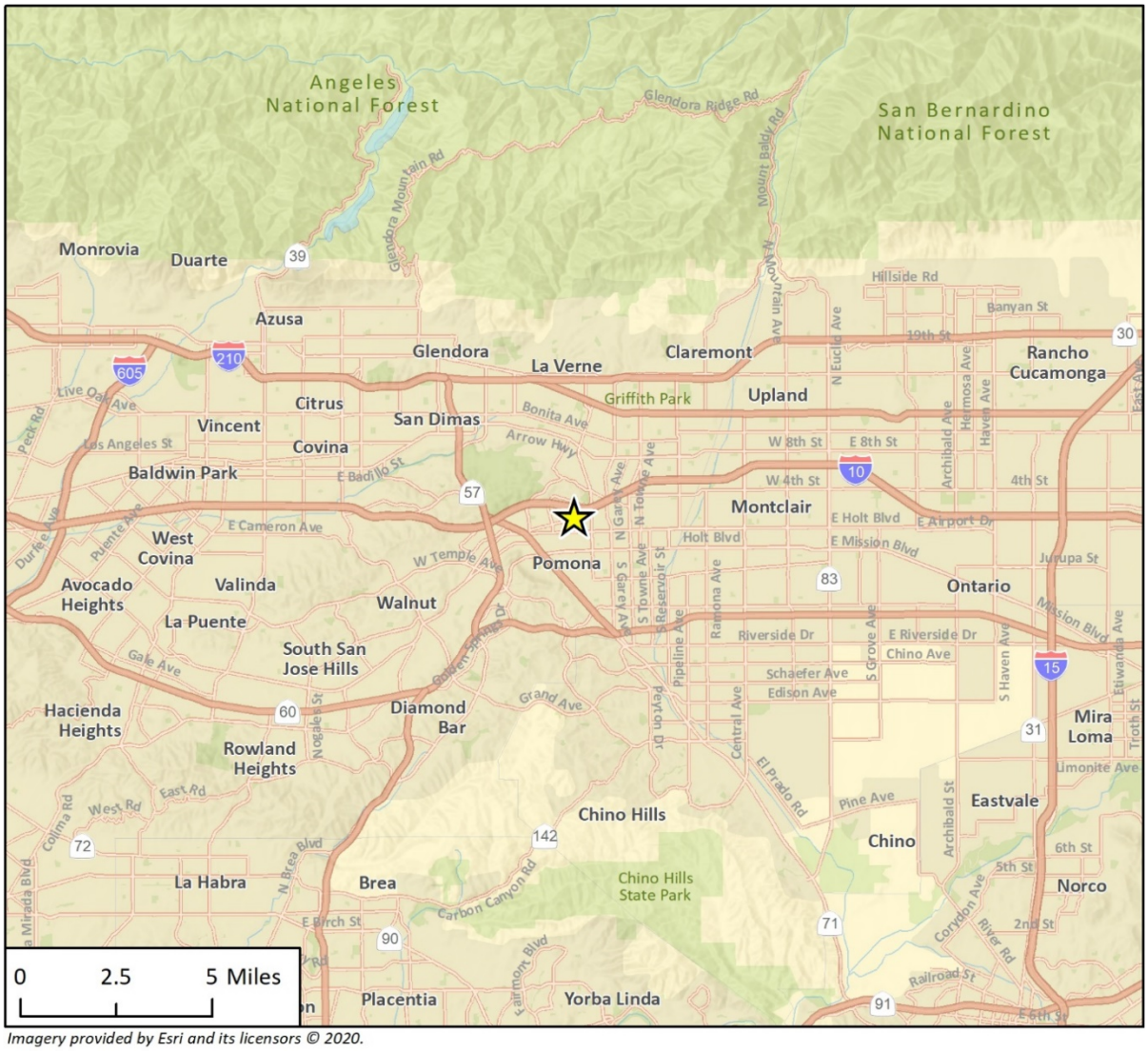
The 875 West Orange Grove Project (project) proposes the development of 33 detached single-family residences. Figure 3 shows the project site plan. All proposed project plans, including floor plans and conceptual building elevations are included in Appendix A.

The proposed residences would consist of three- to four-bedroom units, ranging between 1,687 square feet (sf) to 1,955 sf. The 33 residences would be configured in a horseshoe arrangement, with 24 residences along the edge of the project boundaries and nine residences located in the center of the site. The proposed residences would be two stories and vary in maximum height between approximately 25 to 28 feet in height depending on the building plan. Building materials would include stucco for most of the building façade.

Construction

Construction would occur over approximately 12 months in three phases, with construction anticipated to begin in March 2021 and completed by March 2022, with first occupancy anticipated for April 2022. The project would require approximately 20,910 cubic yards of soil excavation, which would be recompacted and redistributed on-site. The project would also require approximately 4,750 cubic yards of soil imported from off-site sources. The project would have no export of soils nor associated haul trips for export. The staging area would be in the open area between Lot 29 and the cell tower.

Figure 1 Regional Location Map



Imagery provided by Esri and its licensors © 2020.

Project Location

N

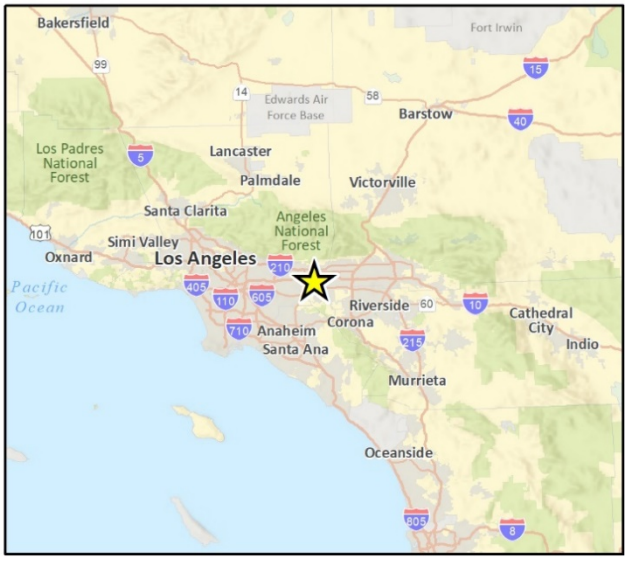


Figure 2 Project Site Location

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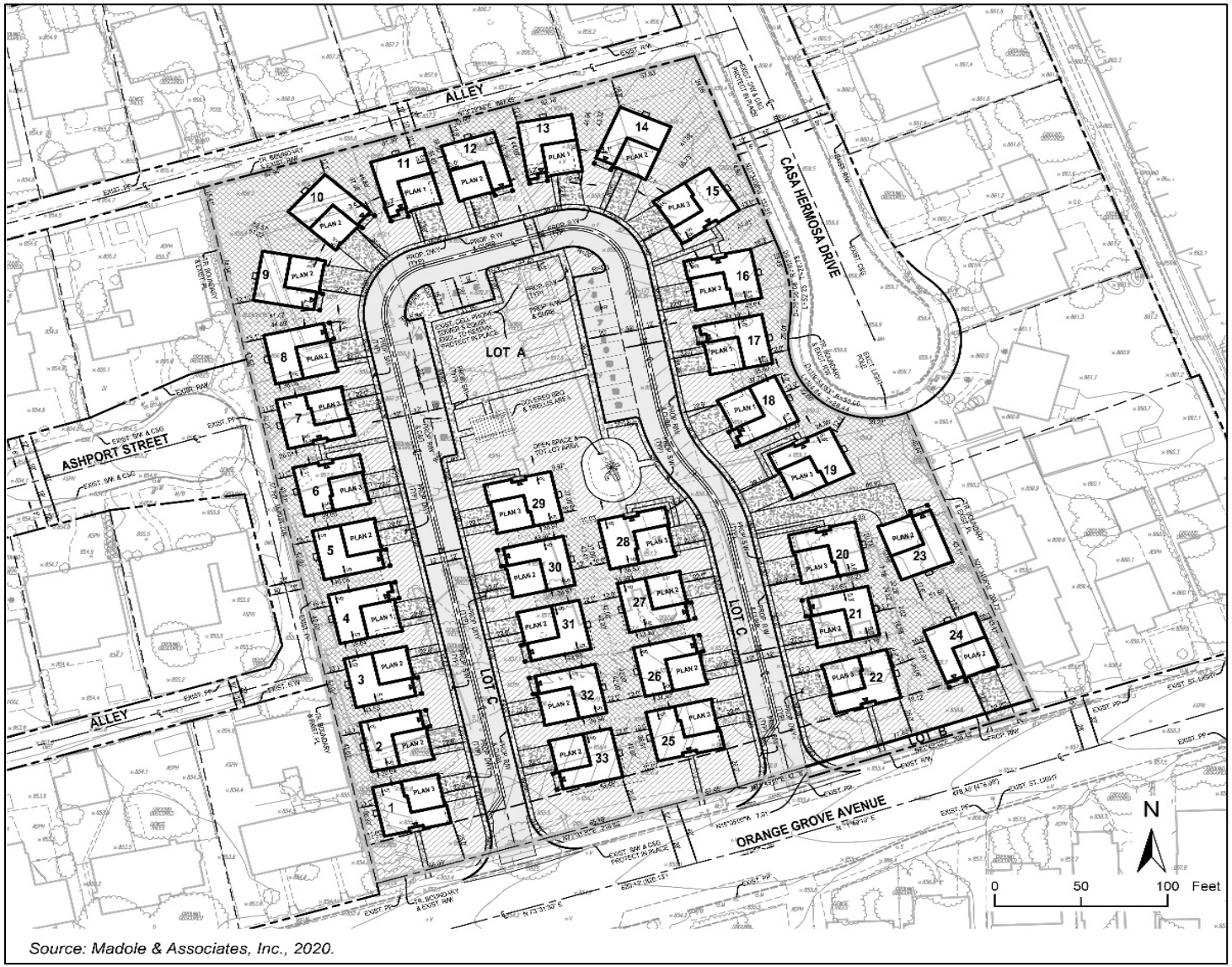
Figure 3 Site Plan



Source: Madole & Associates, Inc., 2020.

2 Air Quality

2.1 Environmental and Regulatory Setting

Local Climate and Meteorology

The project site is in the South Coast Air Basin (SCAB), which is bounded by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east. The SCAB includes all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties, in addition to the San Gorgonio Pass area in Riverside County. The regional climate in the SCAB is semi-arid and is characterized by warm summers, mild winters, infrequent seasonal rainfall, moderate daytime onshore breezes, and moderate humidity. Air quality in the SCAB is primarily influenced by meteorology and a wide range of emission sources, such as dense population centers, substantial vehicular traffic, and industry.

Air pollutant emissions in the SCAB are generated primarily by stationary and mobile sources. Stationary sources can be divided into two major subcategories: point and area sources. Point sources occur at a specific location and are often identified by an exhaust vent or stack. Examples include boilers or combustion equipment that produce electricity or generate heat. Area sources are widely distributed and include such sources as residential and commercial water heaters, painting operations, lawn mowers, agricultural fields, landfills, and some consumer products. Mobile sources refer to emissions from motor vehicles, including tailpipe and evaporative emissions, and are classified as either on-road or off-road. On-road sources may be legally operated on roadways and highways. Off-road sources include aircraft, ships, trains, and self-propelled construction equipment. Air pollutants can also be generated by the natural environment, such as when high winds suspend fine dust particles.

Air Quality Regulation

Federal and California Clean Air Acts

The federal and state governments have established ambient air quality standards for the protection of public health. The United States Environmental Protection Agency (USEPA) is the federal agency designated to administer air quality regulation, while the California Air Resources Board (CARB) is the state equivalent within the California Environmental Protection Agency (CalEPA). County-level air districts provide local management of air quality. CARB has established air quality standards and is responsible for the control of mobile emission sources, while the local air districts are responsible for enforcing standards and regulating stationary sources. CARB has established 15 air basins statewide, including the SCAB.

The USEPA has set primary national ambient air quality standards (NAAQS) for ozone (O_3), carbon monoxide (CO), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), particulate matter with diameters of up to ten microns (PM_{10}) and up to 2.5 microns ($PM_{2.5}$), and lead. Primary standards are those levels of air quality deemed necessary, with an adequate margin of safety, to protect public health. In addition, California has established health-based ambient air quality standards (known as the California ambient air quality standards [CAAQS]) for these and other pollutants, some of which are more stringent than the federal standards. Table 2 lists the current federal and state standards for regulated pollutants.

Table 2 Federal and State Ambient Air Quality Standards

Pollutant	Averaging Time	Federal Primary Standards[1]	California Standards
Ozone	1-Hour	–	0.09 ppm
	8-Hour	0.070 ppm	0.070 ppm
CO	8-Hour	9.0 ppm	9.0 ppm
	1-Hour	35.0 ppm	20.0 ppm
NO_2	Annual	0.053 ppm	0.030 ppm
	1-Hour	0.100 ppm	0.18 ppm
SO_2	Annual	.030 ppm	–
	24-Hour	0.14 ppm	0.04 ppm
	1-Hour	0.075 ppm	0.25 ppm
PM_{10}	Annual	–	20 µg/m^3
	24-Hour	150 µg/m^3	50 µg/m^3
$PM_{2.5}$	Annual	12 µg/m^3	12 µg/m^3
	24-Hour	35 µg/m^3	–
Lead	30-Day Average	–	1.5 µg/m^3
	3-Month Average	0.15 µg/m^3	–
Visibility Reducing Particles	8-Hour	–	Extinction of 0.23 per kilometer
Sulfates	24-Hour	–	25 µg/m^3
Hydrogen Sulfide	1-Hour	–	0.03 ppm (42 µg/m^3)
Vinyl Chloride	24-Hour	–	0.01 ppm (26 µg/m^3)

[1] ppm = parts per million; µg/m^3 = micrograms per cubic meter

Source: CARB 2016

SCAQMD is the designated air quality control agency in the SCAB, which is a non-attainment area for the federal standards for ozone and $PM_{2.5}$ and the state standards for ozone, PM_{10}, and $PM_{2.5}$. The Los Angeles County portion of the SCAB is also designated non-attainment for lead (SCAQMD 2016). The SCAB is designated unclassifiable or in attainment for all other federal and state standards.

Safer Affordable Fuel-Efficient Vehicles Rule

On September 27, 2019, the USEPA and the National Highway Safety Administration published the Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule Part One: One National Program. The Part One Rule revokes California's authority to set its own GHG emissions standards and zero-emission vehicle mandates in California. To account for the effects of the Part One Rule, CARB released off-model adjustment factors on November 20, 2019 to adjust criteria air pollutant emissions outputs from the EMFAC model. These off-model adjustment factors are to be applied by multiplying the emissions calculated for light- and medium-duty vehicles by the adjustment factor. With the incorporation of these adjustment factors, operational emissions generated by light-duty automobiles, light-duty trucks, and medium-duty trucks associated with project-related vehicle trips at the year 2021, would be approximately 0.01 percent greater for ROG, 0.09 percent greater for particulate matter, 0.02 percent greater for NO_X, and 0.05 percent greater for CO. These increases

would have a negligible impact on overall operational emissions generated by the project and would not alter the significance of the project's operational emissions as discussed further below.

Air Pollutants of Primary Concern

Primary criteria pollutants are emitted directly from a source (e.g., vehicle tailpipe, an exhaust stack of a factory, etc.) into the atmosphere. Primary criteria pollutants include CO, NO_2, PM_{10}, $PM_{2.5}$, SO_2, and lead. Ozone is considered a secondary criteria pollutant because it is created by atmospheric chemical and photochemical reactions between reactive organic gases (ROG) and nitrogen oxides (NO_X). The following subsections describe the characteristics, sources, and health and atmospheric effects of critical air contaminants.

Ozone

Ozone is produced by a photochemical reaction (triggered by sunlight) between NO_X and ROG.[1] Nitrogen oxides are formed during the combustion of fuels, while ROG are formed during combustion and evaporation of organic solvents. Because ozone requires sunlight to form, it usually occurs in substantial concentrations between the months of April and October. Ozone is a pungent, colorless, toxic gas with direct health effects on humans including respiratory and eye irritation and possible changes in lung functions. Groups most sensitive to ozone include children, the elderly, people with respiratory disorders, and people who exercise strenuously outdoors.

Carbon Monoxide

Carbon monoxide is a local pollutant that is found in high concentrations only near fuel combustion equipment and other sources of CO. The primary source of CO, a colorless, odorless, poisonous gas, is automobile traffic. Therefore, elevated concentrations are usually only found near areas of high traffic volumes. Carbon monoxide's health effects are related to its affinity for hemoglobin in the blood. At high concentrations, CO reduces the amount of oxygen in the blood, causing heart difficulty in people with chronic diseases, reduced lung capacity, and impaired mental abilities.

Nitrogen Dioxide

Nitrogen dioxide is a by-product of fuel combustion, with the primary source being motor vehicles and industrial boilers and furnaces. The principal form of nitrogen oxide produced by combustion is nitric oxide (NO), but NO reacts rapidly to form NO_2, creating the mixture of NO and NO_2 commonly called NO_X. Nitrogen dioxide is an acute irritant. A relationship between NO_2 and chronic pulmonary fibrosis may exist, and an increase in bronchitis in young children at concentrations below 0.3 parts per million (ppm) may occur. Nitrogen dioxide absorbs blue light, gives a reddish-brown cast to the atmosphere, and reduces visibility. It can also contribute to the formation of ozone/smog and acid rain.

Sulfur Dioxide

Sulfur dioxide is a colorless, pungent, irritating gas formed primarily by the combustion of sulfur-containing fossil fuels. When SO_2 oxidizes in the atmosphere, it forms sulfur trioxide. Collectively, these pollutants are referred to as sulfur oxides (SO_X). In humid atmospheres, SO_2 can also form

[1] CARB defines VOC and ROG similarly as, "any compound of carbon excluding CO, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate," with the exception that VOC are compounds that participate in atmospheric photochemical reactions (CARB 2009). For the purposes of this analysis, ROG and VOC are considered comparable in terms of mass emissions and the term ROG is used in this report.). SCAQMD uses the term VOC to denote organic precursors.

sulfuric acid mist, which can eventually react to produce sulfate particulates that can inhibit visibility. Combustion of high sulfur-content fuels is the major source of SO_2, while chemical plants, sulfur recovery plants, and metal processing are minor contributors. At sufficiently high concentrations, SO_2 irritates the upper respiratory tract. At lower concentrations, when in conjunction with particulates, SO_2 appears to do still greater harm by injuring lung tissues. This compound also constricts the breathing passages, especially in people with asthma and people involved in moderate to heavy exercise. Sulfur dioxide causes respiratory irritation, including wheezing, shortness of breath, and coughing. Long-term SO_2 exposure has been associated with increased risk of mortality from respiratory or cardiovascular disease. Sulfur oxides, in combination with moisture and oxygen, can yellow leaves on plants, dissolve marble, and eat away iron and steel.

Suspended Particulates

Atmospheric particulate matter is comprised of finely divided solids and liquids such as dust, soot, aerosols, fumes, and mists. The particulates that are of particular concern are PM_{10} (small particulate matter that measures no more than 10 microns in diameter) and $PM_{2.5}$ (fine particulate matter that measures no more than 2.5 microns in diameter). The characteristics, sources, and potential health effects associated with PM_{10} and $PM_{2.5}$ can be different. Major man-made sources of PM_{10} are agricultural operations, industrial processes, combustion of fossil fuels, construction, demolition operations, and entrainment of road dust into the atmosphere. Natural sources include windblown dust, wildfire smoke, and sea spray salt. The finer $PM_{2.5}$ particulates are generally associated with combustion processes as well as formation in the atmosphere as a secondary pollutant through chemical reactions. $PM_{2.5}$ is more likely to penetrate deeply into the lungs and poses a serious health threat to all groups, but particularly to the elderly, children, and those with respiratory problems. More than half of the small and fine particulate matter that is inhaled into the lungs remains there, which can cause permanent lung damage. These materials can damage health by interfering with the body's mechanisms for clearing the respiratory tract or by acting as carriers of an absorbed toxic substance.

Lead

Lead is a metal found naturally in the environment, as well as in manufacturing products. Lead occurs in the atmosphere as particulate matter. The major sources of lead emissions historically have been mobile and industrial sources. In the early 1970s, the USEPA set national regulations to gradually reduce the lead content in gasoline. In 1975, unleaded gasoline was introduced for motor vehicles equipped with catalytic converters. The USEPA completed the ban prohibiting the use of leaded gasoline in highway vehicles in December 1995. As a result of the USEPA's regulatory efforts to remove lead from gasoline, atmospheric lead concentrations have declined substantially over the past several decades. The most dramatic reductions in lead emissions occurred prior to 1990 due to the removal of lead from gasoline sold for most highway vehicles. Lead emissions were further reduced substantially between 1990 and 2008, with reductions occurring in the metals industries in part due to national emissions standards for hazardous air pollutants (USEPA 2013). As a result of phasing out leaded gasoline, metal processing is currently the primary source of lead emissions. The highest levels of lead in the air are generally found near lead smelters. Other stationary sources include waste incinerators, utilities, and lead-acid battery manufacturers. Lead may cause a range of health effects, including anemia, kidney disease, and neuromuscular and neurological dysfunction (in severe cases). The proposed project does not include any stationary sources of lead emissions.

Therefore, implementation of the project would not result in substantial emissions of lead, and this pollutant is not discussed further in this analysis.

Toxic Air Contaminants

Toxic air contaminants (TACs) are a diverse group of air pollutants that may cause or contribute to an increase in deaths or serious illness or that may pose a present or potential hazard to human health. TACs include both organic and inorganic chemical substances that may be emitted from a variety of common sources, including gasoline stations, motor vehicles, dry cleaners, industrial operations, painting operations, and research and teaching facilities. One of the main sources of TACs in California is diesel engines that emit exhaust containing solid material known as diesel particulate matter (DPM; CARB 2011). TACs are different than the criteria pollutants previously discussed because ambient air quality standards have not been established for TACs. TACs occurring at extremely low levels may still cause health effects, and it is typically difficult to identify levels of exposure that do not produce adverse health effects. TAC impacts are described by carcinogenic risk and by chronic (i.e., of long duration) and acute (i.e., severe but of short duration) adverse effects on human health.

Current Air Quality

The SCAQMD operates a network of air quality monitoring stations throughout the SCAB. The purpose of the monitoring stations is to measure ambient concentrations of pollutants and determine whether ambient air quality meets the California and federal standards. The monitoring station closest to the project site is the Pomona monitoring station, located at 924 North Garey Avenue in Pomona, approximately 0.9 miles southeast of the project site. The Pomona monitoring station did not report both State and federal carbon monoxide, sulfur dioxide, lead, and particulate matter concentrations. Therefore, this information was obtained from the nearest station reporting State and federal particulate matter, carbon monoxide, and lead data, the Azusa station, located at 803 North Loren Avenue in Azusa approximately 10.0 miles northwest of the project site. Data for State and federal sulfur dioxide was obtained from the Los Angeles station, located at 1630 North Main Street in Los Angeles, approximately 26.4 miles west of the project site. Table 3 indicates the number of days that each of the federal and State standards has been exceeded at monitoring stations near the project site in each of the last three years for which data is available. In the vicinity of the project site, the federal and State 8-hour ozone standards were exceeded each year from 2017 to 2019, Federal worst hour ozone standard was exceeded in 2017, and the State worst hour ozone standard was exceeded each year from 2016 to 2018. In addition, the PM_{10} State standard was exceeded each year and the $PM_{2.5}$ federal standard was exceeded from 2017 to 2018. No other State or federal standards were exceeded at nearby monitoring stations.

Table 3 Annual Ambient Air Quality Data

Pollutant	2017	2018	2019
Ozone (ppm), Worst 1-Hour[1]	0.147	0.112	0.098
Number of days above CAAQS (>0.09 ppm)	18	7	3
Number of days above NAAQS (>0.12 ppm)	5	0	0
Ozone (ppm), Worst 8-Hour Average[1]	0.114	0.092	0.083
Number of days above CAAQS (>0.070 ppm)	38	11	13
Number of days above NAAQS (>0.070 ppm)	35	10	12
Carbon Monoxide (ppm), Highest 8-Hour Average[2]	1.8	1.6	1.3
Number of days above CAAQS or NAAQS (>9.0 ppm)	0	0	0
Nitrogen Dioxide (ppm), Worst 1-Hour[1]	0.0812	0.0679	0.0644
Number of days above CAAQS (>0.180 ppm)	0	0	0
Number of days above NAAQS (>0.100 ppm)	0	0	0
Sulfur Dioxide (ppm), Worst Hour[3]	0.0057	0.0179	0.010
Number of days above CAAQS (>0.25 ppm)	0	0	0
Number of days above NAAQS (>0.075 ppm)	0	0	0
Particulate Matter <10 microns (μg/m^3), Worst 24 Hours[2]	83.9	78.3	82.0
Number of days above CAAQS (>50 μg/m^3)	7	10	4
Number of days above NAAQS (>150 μg/m^3)	0	0	0
Particulate Matter <2.5 microns (μg/m^3), Worst 24 Hours[2]	24.9	41.8	70.3
Number of days above NAAQS (>35 μg/m^3)	0	1	1
Lead (μg/m^3), 3-Month Average[2]	0.034	0.015	0.009
Number of days above NAAQS (>0.15 μg/m^3)	0	0	0

ppm = parts per million; μg/m^3 = micrograms per cubic meter; CAAQS = California Ambient Air Quality Standard; NAAQS = National Ambient Air Quality Standard

[1] Data sourced from the CARB and the U.S. EPA at the nearest monitoring station with available data at the 924 North Garey Avenue station in Pomona.

[2] Data sourced from the U.S. EPA at the nearest monitoring station with available data at the 803 North Loren Avenue station in Azusa.

[3] Data sourced from the U.S. EPA at the nearest monitoring station with available data at the 1630 North Main Street station in Los Angeles.

Source: CARB 2020b and U.S. EPA 2020b

Air Quality Management Plan

Under state law, the SCAQMD is required to prepare a plan for air quality improvement for pollutants for which its jurisdiction is in non-compliance. The SCAQMD updates the plan every three years. Each iteration of the SCAQMD's Air Quality Management Plan (AQMP) is an update of the previous plan and has a 20-year horizon. The latest AQMP, the 2016 AQMP, was adopted on March 3, 2017. It incorporates new scientific data and notable regulatory actions that have occurred since adoption of the 2012 AQMP, including the approval of the new federal eight-hour ozone standard of 0.070 ppm that was finalized in 2015. The Final 2016 AQMP addresses several state and federal planning requirements and incorporates new scientific information, primarily in the form of updated emissions inventories, ambient measurements, and meteorological air quality models. The

Southern California Association of Governments' (SCAG) projections for socio-economic data (e.g., population, housing, employment by industry) and transportation activities from the 2016 Regional Transportation Plan/Sustainable Communities Strategy (2016 RTP/SCS) are integrated into the 2016 AQMP. The 2016 AQMP builds upon the approaches taken in the 2012 AQMP for the attainment of federal PM and ozone standards and highlights the significant amount of reductions to be achieved. It emphasizes the need for interagency planning to identify additional strategies to achieve reductions within the timeframes allowed under the federal Clean Air Act, especially in the area of mobile sources. The 2016 AQMP also includes a discussion of emerging issues and opportunities, such as fugitive toxic particulate emissions, zero-emission mobile source control strategies, and the interacting dynamics among climate, energy, and air pollution. The 2016 AQMP also demonstrates strategies for attainment of the new federal eight-hour ozone standard and vehicle miles travelled emissions offsets, pursuant to recent USEPA requirements (SCAQMD 2017).

Sensitive Receptors

CARB and the Office of Environmental Health Hazard Assessment (OEHHA) have identified the following groups of individuals as the most likely to be affected by air pollution: the elderly over 65, children under 14, infants (including in utero in the third trimester of pregnancy), and persons with cardiovascular and chronic respiratory diseases such as asthma, emphysema, and bronchitis (CARB 2005, OEHHA 2015). Some land uses are considered more sensitive to air pollution than others due to the types of population groups or activities involved and are referred to as sensitive receptors. Examples of these sensitive receptors are residences, schools, hospitals, religious facilities, and daycare centers. The nearest sensitive receptors to the site consist of single-family residences adjacent to the site to the north, west and east, and single-family residences approximately 75 feet to the south across West Orange Grove.

2.2 Impact Analysis

This air quality analysis conforms to the methodologies recommended in the SCAQMD's *CEQA Air Quality Handbook* (1993) and supplemental guidance provided by the SCAQMD, including recommended thresholds for emissions associated with both construction and operation of the project (SCAQMD 2015).

Methodology

The project's construction and operational emissions were estimated using the California Emissions Estimator Model (CalEEMod), version 2016.3.2. CalEEMod uses project-specific information, including the project's land uses, square footages for different uses (e.g., single family residence, parking lot), and location, to estimate a project's construction and operational emissions. CalEEMod does not contain a land use directly correlated to open space or road; the project's open space was attributed to the "City Park" land use subtype while the project's road was attributed to the "Other Asphalt Surfaces" land use subtype, with mobile, energy, and water use modified for the unique characteristics of an open space and road, as described below and in Section 3.2.

Construction Emissions

Construction emissions modeled include emissions generated by construction equipment used on-site and emissions generated by vehicle trips associated with construction, such as worker and vendor trips. Emissions were modeled assuming construction of 33 single family residential units

with a total of 60,761 sf and 17 parking spaces. Construction phases would include demolition, site preparation, grading, building construction, paving, and architectural coating. Project construction is planned to commence in March 2021 and be completed in March 2022, taking approximately 12 months. The project would occur in three phases:

- **Phase I**
  - Phase I includes site preparation and grading for the entire project site, as well as building construction and architectural coating for the first portion of the single-family residences. Phase I would take eight months total.
- **Phase II**
  - Phase II includes building construction and architectural coating for the remaining single-family residences of the project site. Phase II would occur for six months total and may overlap with Phase I.
- **Phase III**
  - Phase III involves building construction and paving of the project site. Phase III would occur for approximately six months and may overlap with Phase I and Phase II.

The project would require approximately 20,910 cubic yards of soil excavation, which would be recompacted and redistributed on-site. The project would also require approximately 4,750 cubic yards of soil imported from off-site sources. Material export would include exporting the removed existing asphalt, which would occur over an approximate 3.6 acres. The existing asphalt surface was estimated to be 4 inches thick with a mass of 145 pounds per cubic foot (National Asphalt Pavement Association, n.d.), resulting in the export of 3,789 tons of debris.

Other details such as construction equipment were based on CalEEMod defaults, except for the site preparation phase where the project applicant stated that two scrapers would be used. As detailed in Section 1, *Project Description and Impact Summary*, it was assumed that project construction would comply with all applicable regulatory standards, including SCAQMD Rule 403 (RCM-1 Fugitive Dust), SCAQMD Rule 402 (RCM-2 Odor Compliance), Section 2485 of Title 13 of the California Code of Regulations (RCM-3 Engine Idling), Section 93115 of Title 17 of the California Code of Regulations (RCM-4 Emission Standards) and Rule 1113 (RCM-5 Architectural Coatings).

Operational Emissions

In CalEEMod, operational sources of criteria pollutant emissions include area, energy, and mobile sources; GHG emissions include water and solid waste sources in addition to area, energy, and mobile sources. The project's use was modeled using the land use types of "single-family residential" and "parking lot", with mobile, energy, and water use modified for the unique characteristics of a single family residence and parking lot, as described below and in Section 3.2. Operational sources of criteria pollutant emissions include mobile source emissions (i.e., vehicle emissions), energy emissions, and area source emissions. The existing church use on site is currently not fully operational due to COVID-19 restrictions; therefore, existing emissions from the church were conservatively not taken into consideration for the determination of project impacts.

Mobile source emissions consist of emissions generated by residents to and from the project site. The trip generation rates and vehicle miles traveled (VMT) estimates from the Transportation Impact Assessment prepared by the Ganddini Group, Inc (2020) were used to estimate mobile source emissions. Based on trip generation rates from the Institute of Transportation Engineers, Trip Generation Manual, 10th Edition, Ganddini Group, Inc. calculated that the project would generate

312 daily vehicle trips. Emissions attributed to energy use include emissions from natural gas consumption for space and water heating and cooking. Area source emissions are generated by landscape maintenance equipment, consumer products, and architectural coatings.

Significance Thresholds

To determine whether a project would result in a significant impact to air quality, Appendix G of the CEQA Guidelines requires consideration of whether a project would:

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

Regional Significance Thresholds

The SCAQMD recommends quantitative regional significance thresholds for temporary construction activities and long-term project operation in the SCAB, shown in Table 4.

Table 4 SCAQMD Regional Significance Thresholds

Construction Thresholds	Operational Thresholds
75 pounds per day of VOC	55 pounds per day of VOC
100 pounds per day of NO_X	55 pounds per day of NO_X
550 pounds per day of CO	550 pounds per day of CO
150 pounds per day of SO_X	150 pounds per day of SO_X
150 pounds per day of PM_{10}	150 pounds per day of PM_{10}
55 pounds per day of $PM_{2.5}$	55 pounds per day of $PM_{2.5}$

Source: SCAQMD 2019

Localized Significance Thresholds

In addition to the above regional thresholds, the SCAQMD has developed Localized Significance Thresholds (LSTs) in response to the Governing Board's Environmental Justice Enhancement Initiative (1-4), which was prepared to update the *CEQA Air Quality Handbook* (1993). LSTs were devised in response to concern regarding exposure of individuals to criteria pollutants in local communities and have been developed for NO_X, CO, PM_{10}, and $PM_{2.5}$. LSTs represent the maximum emissions from a project that will not cause or contribute to an air quality exceedance of the most stringent applicable federal or State ambient air quality standard at the nearest sensitive receptor, taking into consideration ambient concentrations in each source receptor area (SRA), distance to the sensitive receptor, and project size. LSTs have been developed for emissions generated in construction areas up to five acres in size. However, LSTs only apply to emissions in a fixed stationary location and are not applicable to mobile sources, such as cars on a roadway (SCAQMD 2008). As such, LSTs are typically applied only to construction emissions because the majority of operational emissions are associated with project-generated vehicle trips.

The SCAQMD provides LST lookup tables for project sites that measure one, two, or five acres. Project construction would occur on an area approximately 3.6 acres in size; therefore, as a conservative analysis, the two-acre LSTs were used. LSTs are provided for receptors at 82 to 1,640 feet from the project disturbance boundary to the sensitive receptors. Construction activity would occur within approximately 25 feet south of the closest sensitive receptors, which consist of single-family residences adjacent to the site to the west. According to the SCAQMD's publication, *Final LST Methodology*, projects with boundaries located closer than 82 feet to the nearest receptor should use the LSTs for receptors located at 82 feet. Therefore, the analysis below uses the LST values for 82 feet. The project is in SRA-10 (Pomona/Walnut Valley). LSTs for construction in SRA-10 on a two-acre site with a receptor 82 feet away are shown in Table 5.

Table 5 SCAQMD LSTs for Construction (SRA 10)

Pollutant	Allowable Emissions for a Two-acre Site in SRA 10 for a Receptor 82 Feet Away (lbs/day)
Gradual conversion of NO_X to NO_2	149
CO	885
PM_{10}	6
$PM_{2.5}$	4

Source: SCAQMD 2009

Project Impacts

Threshold 1	Would the project conflict with or obstruct implementation of the applicable air quality plan? **LESS THAN SIGNIFICANT**

A project may be inconsistent with the AQMP if it would generate population, housing, or employment growth exceeding forecasts used in the development of the AQMP. The 2016 AQMP, the most recent AQMP adopted by the SCAQMD, incorporates local city general plans and the SCAG's 2016 RTP/SCS socioeconomic forecast projections of regional population, housing, and employment growth.

According to the California Department of Finance (DOF), the City of Pomona has an estimated population of 154,817 and a household count of 41,822 (DOF 2020). Based on the City's Housing Element, amended in 2018, the average household size is 3.85 persons (City of Pomona 2018). The project involves the demolition of an existing church, open space and parking lot servicing the church and the development of 33 residential units with open space and parking spaces fronting Orange Grove Avenue. Therefore, the project would increase the local population by up to 127 persons (33 units x 3.85 persons per unit). Furthermore, as a residential development, the project would not directly contribute to population or employment growth in the City through new employment.

The population growth forecasts in SCAG's 2016 RTP/SCS estimate that the City's population would increase to 190,400 in 2040, which is an increase of 35,583 people from the City's population in 2020 (SCAG 2016). Based on an estimated increase of 127 persons, the project would account for less than one percent of the forecasted population growth between 2020 and 2040. Therefore, the project would not contribute to population growth in the City beyond that planned for by the SCAG 2016 RTP/SCS.

Similarly, the household growth forecasts in SCAG's 2016 RTP/SCS estimate that the total number of households in Pomona would increase to 51,100 in 2040, for an increase of 9,278 households from 2020 estimates (SCAG 2016). The project would increase the number of households by 33, which would account for less than one percent of the forecasted increase between 2020 and 2040. Therefore, the project's contribution to housing in the City would be within SCAG growth projections.

In October 2012, SCAG adopted the Regional Housing Needs Assessment (RHNA) for the 2013-2021 Housing Element cycle for jurisdictions with the SCAG region, covering a 7.8-year planning period beginning on October 13, 2013. The RHNA quantifies the need for housing in each jurisdiction, including the City of Pomona, and currently requires that the City produce 3,623 housing units (City of Pomona 2018). According to the City's RHNA 6th Cycle and Housing Strategies Discussion on August 19, 2019, the City has currently met approximately 24 percent of that need which equates to approximately 870 units (City of Pomona 2019). Therefore, implementation of the project would contribute an additional 33 units and further assist the City in meeting RHNA requirements.

The AQMP also provides strategies and measures to reach attainment with the thresholds for 8-hour and 1-hour ozone and PM2.5. As shown in Table 6 and Table 7 in the following analysis, the proposed project would not generate criteria pollutant emissions that would exceed SCAQMD thresholds for ozone precursors (ROG and NO_X) and $PM_{2.5}$. Since the project would also be consistent with population and housing growth projections for the City, the project would not conflict with or obstruct implementation of the AQMP and impacts would be less than significant.

Threshold 2	Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard? **LESS THAN SIGNIFICANT**

Construction Impacts

Table 6 summarizes the estimated maximum daily emissions of pollutants associated with construction of the proposed project. As shown below, VOC, NO_X, CO, SO_2, PM_{10}, and $PM_{2.5}$ emissions would not exceed SCAQMD regional thresholds or LSTs. Because air pollutant emissions generated by project construction would not exceed SCAQMD's regional significance thresholds or LSTs, project construction would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment, and impacts would be less than significant.

Table 6 Project Construction Emissions

	Maximum Emissions (lbs./day)					
Year	**VOC**	**NO_x**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Construction Year 2021	32	46	38	<1	5	4
Construction Year 2022	30	18	19	<1	1	1
Maximum Daily Construction Emissions	32	46	38	<1	5	4
SCAQMD Regional Thresholds	75	100	550	150	150	55
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**
Maximum Daily On-site Emissions	32	42	35	<1	4	1
SCAQMD Localized Significance Thresholds (LSTs)	N/A	149	885	N/A	6	4
Threshold Exceeded?	**N/A**	**No**	**No**	**N/A**	**No**	**No**

Notes: All emissions modeling was completed using CalEEMod. See Appendix B for modeling results. Some numbers may not add up due to rounding. Emission data is pulled from "mitigated" results, which account for compliance with regulatory compliance measures. Emissions presented are the highest of the winter and summer modeled emissions. Maximum on-site emissions are the highest emissions that would occur on the project site from on-site sources such as heavy construction equipment and architectural coatings and excludes off-site emissions from sources such as construction worker vehicle trips and haul truck trips.

Operational Impacts

Table 7 summarizes the project's operational emissions by emission source (area, energy, mobile, and generator). As shown below, the emissions generated by operation of the proposed project would not exceed SCAQMD regional thresholds for criteria pollutants. Therefore, the project would not contribute substantially to an existing or projected air quality violation. In addition, because criteria pollutant emissions and regional thresholds are cumulative in nature, the project would not result in a cumulatively considerable net increase of criteria pollutants.

Table 7 Project Operational Emissions

	Maximum Daily Emissions (lbs./day)					
Emission Source	**VOC**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Area	1	<1	3	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1
Mobile	<1	2	7	<1	2	1
Total Project Emissions	**2**	**3**	**10**	**<1**	**2**	**1**
SCAQMD Regional Thresholds	55	55	550	150	150	55
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: Area, energy, and mobile emissions modeling was completed using CalEEMod; see Appendix B for modeling results. Some numbers may not add up due to rounding. Emission data is pulled from "mitigated" results that include compliance with regulatory compliance measures. Emissions presented are the highest of the winter and summer modeled emissions.

Cumulative Impacts

The cumulative context for air quality is regional. The SCAB is designated a nonattainment area for the federal and state one-hour and eight-hour ozone standards, the state PM_{10} standards, the federal 24-hour $PM_{2.5}$ standard, and the federal and state annual $PM_{2.5}$ standard. SCAB is in attainment of all other federal and state standards. The project would contribute particulate matter and the ozone precursors ROG and NO_X to the area during construction and operation. As described above, regional emissions during construction would not violate an air quality standard or contribute substantially to an existing or projected air quality violation; and would be less than significant. With respect to localized impacts, the consideration of cumulative construction particulate matter impacts is limited to cases when projects constructed simultaneously are within a few hundred yards of each other because of: (1) the combination of the short range (distance) of particulate dispersion (especially when compared to gaseous pollutants); and (2) the SCAQMD's required dust control measures which further limit particulate dispersion from a project site. Therefore, with the implementation of dust control measures, the unlikelihood that construction would occur within a few hundred yards of major off-site construction, and compliance with SCAQMD regional construction emission thresholds, the project would not contribute a cumulatively considerable amount of pollutants from construction emissions.

Threshold 3	Would the project expose sensitive receptors to substantial pollutant concentrations? **LESS THAN SIGNIFICANT**

Localized Carbon Monoxide Hotspot Impact

A CO hotspot is a localized concentration of CO that is above a CO ambient air quality standard. Localized CO hotspots can occur at intersections with heavy peak hour traffic. Specifically, hotspots can be created at intersections where traffic levels are sufficiently high such that the local CO concentration exceeds the federal one-hour standard of 35.0 parts per million (ppm) or the federal and state eight-hour standard of 9.0 ppm (CARB 2016).

The entire SCAB is in conformance with state and federal CO standards, and most air quality monitoring stations no longer report CO levels. In 2019, the Azusa– 803 North Loren Avenue station detected an eight-hour maximum CO concentration of 1.3 ppm, which is substantially below the state and federal standard of 9.0 ppm (CARB 2020a). As shown in Table 6, maximum daily CO emissions generated by project construction would be 38 pounds, and maximum on-site emissions generated by project construction would be 22 pounds, which would not exceed SCAQMD's regional threshold (550 pounds per day) or LST (1,566 pounds per day) for CO. Likewise, as shown in Table 7, project operations from area, energy, and mobile emissions sources combined would result a net increase in maximum daily CO emissions of approximately 10 pounds. Both the SCAQMD's regional thresholds and LSTs are designed to be protective of public health. Based on the low background level of CO in the project area, ever-improving vehicle emissions standards for new cars in accordance with state and federal regulations, and the project's low level of operational CO emissions, the project would not create new CO hotspots. Therefore, the proposed project would not expose sensitive receptors to substantial CO concentrations, and localized air quality impacts related to CO hot spots would be less than significant.

Toxic Air Contaminants (TACs)

CONSTRUCTION IMPACTS

Construction-related activities would result in short-term, project-generated emissions of diesel particulate matter (DPM) exhaust emissions from off-road, heavy-duty diesel equipment for site preparation grading, building construction, and other construction activities. DPM was identified as a toxic air contaminant (TAC) by CARB in 1998. The potential cancer risk from the inhalation of DPM (discussed in the following paragraphs) outweighs the potential non-cancer health impacts (CARB 2017a).

Generation of DPM from construction projects typically occurs in a single area for a short period. Construction of the proposed project would occur over approximately five years. The dose to which the receptors are exposed is the primary factor used to determine health risk. Dose is a function of the concentration of a substance or substances in the environment and the extent of exposure that person has with the substance. Dose is positively correlated with time, meaning that a longer exposure period would result in a higher exposure level for the Maximally Exposed Individual. The risks estimated for a Maximally Exposed Individual are higher if a fixed exposure occurs over a longer period of time. According to the OEHHA, health risk assessments, which determine the exposure of sensitive receptors to toxic emissions, should be based on a 30-year exposure period (assumed to be the approximate time that a person spends in a household). OEHHA recommends this risk be bracketed with 9-year and 70-year exposure periods. Health risk assessments should be limited to the period/duration of activities associated with the project.

The maximum $PM_{2.5}$ emissions, which is used to represent DPM emissions for this analysis, would occur during site preparation and grading activities. While site preparation and grading emissions represent the worst-case condition, such activities would only occur for approximately one month, less than two percent, one percent, and 0.2 percent of the typical health risk calculation period of 9 years, 30 years, and 70 years, respectively. $PM_{2.5}$ emissions would decrease for the remaining construction period because construction activities such as building construction and paving would require less construction equipment. Therefore, given the aforementioned, DPM generated by project construction is not expected to create conditions where the probability that the Maximally Exposed Individual would contract cancer is greater than 10 in one million or to generate ground-level concentrations of noncarcinogenic TACs that exceed a Hazard Index greater than one for the Maximally Exposed Individual. This impact would be less than significant.

OPERATIONAL IMPACTS

Sources of operational TAC's include, but are not limited to, land uses such as freeways and high-volume roadways, truck distribution centers, ports, rail yards, refineries, chrome plating facilities, dry cleaners using perchloroethylene, and gasoline dispensing facilities. Project operation does not involve any of these uses; therefore, it is not considered a source of TACs. Therefore, impacts would be less than significant.

Threshold 4 Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people? **LESS THAN SIGNIFICANT**

For construction activities, odors would be short-term in nature and are subject to SCAQMD Rule 402 *Nuisance* (CARB 2018a). Construction activities would be temporary and transitory and associated odors would cease upon construction completion. Accordingly, the proposed project

would not create objectionable odors affecting a substantial number of people during construction, and short-term impacts would be less than significant.

Common sources of operational odor complaints include sewage treatment plants, landfills, recycling facilities, and agricultural uses. The proposed project would not include these uses as the proposed project entails basic residential uses that do not typically emit odors. Solid waste generated by the proposed on-site uses would be collected by a contracted waste hauler, ensuring that any odors resulting from on-site waste would be managed and collected in a manner to prevent the proliferation of odors. Operational odor impacts would be less than significant.

3 Greenhouse Gas Emissions

3.1 Background

This section analyzes GHG emissions associated with the project and potential impacts related to climate change.

Climate Change and Greenhouse Gases

Climate change is the observed increase in the average temperature of Earth's atmosphere and oceans along with other substantial changes in climate (such as wind patterns, precipitation, and storms) over an extended period of time. The term "climate change" is often used interchangeably with the term "global warming," but "climate change" is preferred to "global warming" because it helps convey that there are other changes in addition to rising temperatures. The baseline against which these changes are measured originates in historical records identifying temperature changes that have occurred in the past, such as during previous ice ages. The global climate is continuously changing, as evidenced by repeated episodes of substantial warming and cooling documented in the geologic record. The rate of change has typically been incremental, with warming or cooling trends occurring over the course of thousands of years. The past 10,000 years have been marked by a period of incremental warming, as glaciers have steadily retreated across the globe. However, scientists have observed acceleration in the rate of warming during the past 150 years. Per the United Nations Intergovernmental Panel on Climate Change (IPCC), the understanding of anthropogenic warming and cooling influences on climate has led to a high confidence (95 percent or greater chance) that the global average net effect of human activities has been the dominant cause of warming since the mid-20th century (IPCC 2014).

Gases that absorb and re-emit infrared radiation in the atmosphere are called greenhouse gases (GHGs). The gases that are widely seen as the principal contributors to human-induced climate change include carbon dioxide (CO_2), methane (CH_4), nitrous oxides (N_2O), fluorinated gases such as hydrofluorocarbons (HFCs) and perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6). Water vapor is excluded from the list of GHGs because it is short-lived in the atmosphere, and its atmospheric concentrations are largely determined by natural processes, such as oceanic evaporation.

GHGs are emitted by both natural processes and human activities. Of these gases, CO_2 and CH_4 are emitted in the greatest quantities from human activities. Emissions of CO_2 are largely by-products of fossil fuel combustion, whereas CH_4 results from off-gassing associated with agricultural practices and landfills. Man-made GHGs, many of which have greater heat-absorption potential than CO_2, include fluorinated gases and SF_6 (USEPA 2020). Different types of GHGs have varying global warming potentials (GWPs). The GWP of a GHG is the potential of a gas or aerosol to trap heat in the atmosphere over a specified timescale (generally, 100 years). Because GHGs absorb different amounts of heat, a common reference gas (CO_2) is used to relate the amount of heat absorbed to the amount of the gas emissions, referred to as "carbon dioxide equivalent" (CO_2e), and is the amount of a GHG emitted multiplied by its GWP. Carbon dioxide has a 100-year GWP of one. By contrast, methane CH_4 has a GWP of 25, meaning its global warming effect is 25 times greater than carbon dioxide on a molecule per molecule basis (IPCC 2007).

The accumulation of GHGs in the atmosphere regulates the earth's temperature. Without the natural heat trapping effect of GHGs, Earth's surface would be about 34° C cooler (CalEPA 2006).

However, emissions from human activities, particularly the consumption of fossil fuels for electricity production and transportation, have elevated the concentration of these gases in the atmosphere beyond the level of naturally occurring concentrations.

Greenhouse Gas Emissions Inventory

Worldwide anthropogenic emissions of GHGs were approximately 46,000 million metric tons (MMT, or gigatonne) CO_2e in 2010 (IPCC 2014). CO_2 emissions from fossil fuel combustion and industrial processes contributed about 65 percent of total emissions in 2010. Of anthropogenic GHGs, CO_2 was the most abundant, accounting for 76 percent of total 2010 emissions. Methane emissions accounted for 16 percent of the 2010 total, while N_2O and fluorinated gases accounted for 6 percent and 2 percent respectively (IPCC 2014).

Total United States (U.S.) GHG emissions were 6,676.6 MMT CO_2e in 2018. Since 1990, total U.S. emissions have increased by an average annual rate of 0.13 percent for a total increase of 3.7 percent since 1990. Emissions increased by 2.9 percent from 2017 to 2018. The increase from 2017 to 2018 was primarily the result of increased fossil fuel combustion due to several factors, including increased energy use from greater heating and cooling needs due to a colder winter and hotter summer in 2018 as compared to 2017. In 2018, the industrial and transportation end-use sectors accounted for 29 percent and 28 percent, respectively, of GHG emissions while the residential and commercial end-use sectors each accounted for 16 percent of GHG emissions with electricity emissions distributed among the various sectors (USEPA 2020).

Based on the CARB's California Greenhouse Gas Inventory for 2000-2017, California produced 424.1 MMT CO_2e in 2017. The major source of GHG emissions in California is transportation, contributing 41 percent of the state's total GHG emissions. The industrial sector is the second largest source, contributing 24 percent of the state's GHG emissions, while electric power accounts for approximately 15 percent (CARB 2019a). California emissions are due in part to its large size and large population compared to other states. However, a factor that reduces California's per capita fuel use and GHG emissions, as compared to other states, is its relatively mild climate. In 2016, the State of California achieved its 2020 GHG emission reduction target as emissions fell below 431 MMT CO_2e (CARB 2019a). The annual 2030 statewide target emissions level is 260 MMT CO_2e (CARB 2017b).

Potential Effects of Climate Change

Globally, climate change has the potential to affect numerous environmental resources though potential impacts related to future air temperatures and precipitation patterns. Scientific modeling predicts that continued GHG emissions at or above current rates would induce more extreme climate changes during the 21st century than were observed during the 20th century. Each of the past three decades has been warmer than all the previous decades in the instrumental record, and the five warmest years in the 1880-2019 record have all occurred since 2015 with nine of the 10 warmest years occurring since 2005. The observed global mean surface temperature in 2019 was approximately 0.95°C (1.71 degrees Fahrenheit) higher than the average global mean surface temperature over the period from 1880 to 2019 (National Oceanic and Atmospheric Administration 2019). Furthermore, several independently analyzed data records of global and regional Land-Surface Air Temperature (LSAT) obtained from station observations are in agreement that LSAT as well as sea surface temperatures have increased. Due to past and current activities, anthropogenic GHG emissions are increasing global mean surface temperature at a rate of 0.2°C per decade. In addition to these findings, there are identifiable signs that global warming is currently

taking place, including substantial ice loss in the Arctic over the past two decades (IPCC 2014 and 2018).

According to *California's Fourth Climate Change Assessment*, statewide temperatures from 1986 to 2016 were approximately 1 to 2 degrees Fahrenheit (°F) higher than those recorded from 1901 to 1960. Potential impacts of climate change in California may include loss in water supply from snowpack, sea level rise, more extreme heat days per year, more large forest fires, and more drought years (State of California 2018). While there is growing scientific consensus about the possible effects of climate change at a global and statewide level, current scientific modeling tools are unable to predict what local impacts may occur with a similar degree of accuracy. In addition to statewide projections, *California's Fourth Climate Change Assessment* includes regional reports that summarize climate impacts and adaptation solutions for nine regions of the state as well as regionally-specific climate change case studies (State of California 2018). Below is a summary of some of the potential effects that could be experienced in California as a result of climate change.

Air Quality

Higher temperatures, which are conducive to air pollution formation, could worsen air quality in California. Climate change may increase the concentration of ground-level ozone, but the magnitude of the effect, and therefore its indirect effects, are uncertain. As temperatures have increased in recent years, the area burned by wildfires throughout the state has increased, and wildfires have been occurring at higher elevations in the Sierra Nevada Mountains (State of California 2018). If higher temperatures continue to be accompanied by an increase in the incidence and extent of large wildfires, air quality would worsen. However, if higher temperatures are accompanied by wetter, rather than drier conditions, the rains would tend to temporarily clear the air of particulate pollution and reduce the incidence of large wildfires, thereby ameliorating the pollution associated with wildfires. Additionally, severe heat accompanied by drier conditions and poor air quality could increase the number of heat-related deaths, illnesses, and asthma attacks throughout the state (California Natural Resources Agency 2009).

In the Los Angeles region, changes in meteorological conditions under climate change will affect future air quality. Regional stagnation conditions may occur more often in the future, which would increase pollutant concentrations (State of California 2018b). Hotter future temperatures will act to increase surface ozone concentrations both due to chemistry producing more ozone and higher rates of biogenic emissions, while increases of water vapor also influence chemistry by increasing ozone production in already polluted areas. Changes in ozone may increase in the future however, changes in particulate matter are less certain. Projected changes by 2050 are generally not statistically significant (State of California 2018b).

Water Supply

Analysis of paleoclimatic data (such as tree-ring reconstructions of stream flow and precipitation) indicates a history of naturally and widely varying hydrologic conditions in California and the west, including a pattern of recurring and extended droughts. Year-to-year variability in statewide precipitation levels has increased since 1980, meaning that wet and dry precipitation extremes have become more common (California Department of Water Resources [DWR] 2018). This uncertainty regarding future precipitation trends complicates the analysis of future water demand, especially where the relationship between climate change and its potential effect on water demand is not well understood. However, the average early spring snowpack in the western United States, including the Sierra Nevada Mountains, decreased by about 10 percent during the last century. During the

same period, sea level rose over 5.9 inches along the central and southern California coast (State of California 2018). The Sierra snowpack provides the majority of California's water supply by accumulating snow during the state's wet winters and releasing it slowly during the state's dry springs and summers. A warmer climate is predicted to reduce the fraction of precipitation falling as snow and result in less snowfall at lower elevations, thereby reducing the total snowpack (DWR 2008; State of California 2018). The State of California projects that average spring snowpack in the Sierra Nevada and other mountain catchments in central and northern California will decline by approximately 66 percent from its historical average by 2050 (State of California 2018).

Like the rest of the state, the Greater Los Angeles region is expected to face a challenging combination of decreased water supply and increased water demand (State of California 2018b). Greater interannual variability of rainfall and sharp decreases in snowpack will create surface water limitations for the region. Although the effect of climate change on average precipitation in the region is still unclear, more frequent occurrences of extreme events like the 2011-2016 drought could substantially decrease groundwater recharge, which is essential for the sustainability of agriculture in the region since the vast majority of water used in agriculture in the region is groundwater from local wells. Furthermore, higher temperatures mean that dry years will more quickly develop into severe drought conditions.

Hydrology and Sea Level Rise

Climate change could potentially affect the intensity and frequency of storms and flooding. Furthermore, climate change has the potential to induce substantial sea level rise in the coming century (State of California 2018). The rising sea level increases the likelihood and risk of flooding. The rate of increase of global mean sea levels over the 2001-2010 decade, as observed by satellites, ocean buoys and land gauges, was approximately 3.2 mm per year, which is double the observed 20th century trend of 1.6 mm per year. As a result, global mean sea levels averaged over the last decade were about 8 inches higher than those of 1880 (World Meteorological Organization 2013). Sea levels are rising faster now than in the previous two millennia, and the rise is expected to accelerate, even with robust GHG emission control measures. The most recent IPCC report predicts a mean sea-level rise of 10 to 37 inches by 2100 (IPCC 2018). A rise in sea levels could completely erode 31 to 67 percent of southern California beaches, result in flooding of approximately 370 miles of coastal highways during 100-year storm events, jeopardize California's water supply due to salt water intrusion, and induce groundwater flooding and/or exposure of buried infrastructure (State of California 2018). In addition, increased CO_2 emissions can cause oceans to acidify due to the carbonic acid it forms. Increased storm intensity and frequency could affect the ability of flood-control facilities, including levees, to handle storm events.

As discussed above, climate change could potentially affect the amount of snowfall, rainfall, and snow pack; the intensity and frequency of storms; flood hydrographs (flash floods, rain or snow events, coincidental high tide and high runoff events); sea level rise and coastal flooding; coastal erosion; and the potential for salt water intrusion. In the Greater Los Angeles region, despite small changes in average precipitation, dry and wet extremes are both expected to increase (State of California 2018b). By the late 21st century, the wettest day of the year is expected to increase across most of the region. Increased frequency and severity of atmospheric river events are also projected to occur for this region.

Agriculture

California has a $50 billion annual agricultural industry that produces over a third of the country's vegetables and two-thirds of the country's fruits and nuts (California Department of Food and Agriculture 2019). Higher CO_2 levels can stimulate plant production and increase plant water-use efficiency. However, if temperatures rise and drier conditions prevail, certain regions of agricultural production could experience water shortages of up to 16 percent; water demand could increase as hotter conditions lead to the loss of soil moisture; crop-yield could be threatened by water-induced stress and extreme heat waves; and plants may be susceptible to new and changing pest and disease outbreaks (State of California 2018). In addition, temperature increases could change the time of year certain crops, such as wine grapes, bloom or ripen, and thereby affect their quality (California Climate Change Center 2006). More frequent droughts could substantially decrease groundwater recharge and therefore adversely affect agricultural operations that use groundwater from local wells (State of California 2018). This could contribute to higher food prices and shortages.

Ecosystems and Wildlife

Climate change and the potential resulting changes in weather patterns could have ecological effects on a global and local scale. Increasing concentrations of GHGs are likely to accelerate the rate of climate change. Scientists project that the annual average maximum daily temperatures in California could rise by 4.4 to 5.8°F in the next 50 years and by 5.6 to 8.8°F in the next century (State of California 2018). Soil moisture is likely to decline in many regions, and intense rainstorms are likely to become more frequent. Rising temperatures could have four major impacts on plants and animals related to: (1) timing of ecological events; (2) geographic distribution and range; (3) species' composition and the incidence of nonnative species within communities; and (4) ecosystem processes, such as carbon cycling and storage (Parmesan 2006; State of California 2018). Increases in wildfire would further remove sensitive habitat; increased severity in droughts would potentially starve plants and animals of water; and sea level rise will affect sensitive coastal ecosystems.

Regulatory Setting

The following regulations address both climate change and GHG emissions.

Federal Regulations

FEDERAL CLEAN AIR ACT

The U.S. Supreme Court in *Massachusetts et al. v. Environmental Protection Agency et al*. ([2007] 549 U.S. 497) held that the USEPA has the authority to regulate motor-vehicle GHG emissions under the federal Clean Air Act. The USEPA issued a Final Rule for mandatory reporting of GHG emissions in October 2009. This Final Rule applies to fossil fuel suppliers, industrial gas suppliers, direct GHG emitters, and manufacturers of heavy-duty and off-road vehicles and vehicle engines and requires annual reporting of emissions. In 2012, the USEPA issued a Final Rule that establishes the GHG permitting thresholds that determine when Clean Air Act permits under the New Source Review Prevention of Significant Deterioration (PSD) and Title V Operating Permit programs are required for new and existing industrial facilities.

In *Utility Air Regulatory Group v. Environmental Protection Agency* (134 Supreme Court 2427 [2014]), the U.S. Supreme Court held the USEPA may not treat GHGs as an air pollutant for purposes of determining whether a source can be considered a major source required to obtain a PSD or Title V permit. The Court also held that PSD permits otherwise required based on emissions of other

pollutants may continue to require limitations on GHG emissions based on the application of Best Available Control Technology.

SAFER AFFORDABLE FUEL-EFFICIENT VEHICLES RULE

On September 27, 2019, the USEPA and the National Highway Safety Administration published the SAFE Vehicles Rule Part One: One National Program. The Part One Rule revokes California's authority to set its own GHG emissions standards and zero-emission vehicle mandates in California. To account for the effects of the Part One Rule, CARB released off-model adjustment factors on November 20, 2019 to adjust criteria air pollutant emissions outputs from the EMFAC model. The Final SAFE Rule (i.e., Part Two) then relaxed federal GHG emissions and Corporate Average Fuel Economy (CAFE) standards to increase in stringency at only about 1.5 percent per year from model year 2020 levels over model years 2021– 2026 (CARB 2020b). The previously established emission standards and related fuel economy standards would have achieved about four percent per year improvements through model year 2025. Therefore, CARB has prepared off-model CO_2 emissions adjustment factors for both the EMFAC2014 and EMFAC2017 models to account for the impact of the SAFE Vehicles Rule (CARB 2020c). With the incorporation of these adjustment factors, operational emission factors for CO_2 generated by light-duty automobiles, light-duty trucks, and medium-duty trucks associated with project-related vehicle trips may increase by approximately one percent (in 2020) up to as much as 17 percent (in 2050) compared to non-adjusted estimates. These increases would not alter the significance of the operational GHG emissions from development facilitated by the project as discussed further below.

California Regulations

CARB is responsible for the coordination and oversight of state and local air pollution control programs in California. California has numerous regulations aimed at reducing the state's GHG emissions. These initiatives are summarized below.

CALIFORNIA GLOBAL WARMING SOLUTIONS ACT OF 2006 (ASSEMBLY BILL 32 AND SENATE BILL 32)

The "California Global Warming Solutions Act of 2006," Assembly Bill (AB) 32, outlines California's major legislative initiative for reducing GHG emissions. AB 32 codifies the statewide goal of reducing GHG emissions to 1990 levels by 2020 and requires CARB to prepare a Scoping Plan that outlines the main state strategies for reducing GHG emissions to meet the 2020 target. In addition, AB 32 requires CARB to adopt regulations to require reporting and verification of statewide GHG emissions. Based on this guidance, CARB approved a 1990 statewide GHG level and 2020 target of 431 MMT CO_2e. On December 11, 2008, CARB approved the Climate Change Scoping Plan, which included measures to address GHG emission reduction strategies related to energy efficiency, water use, and recycling and solid waste, among other sectors (CARB 2008). Many of the GHG emission reduction measures included in the Scoping Plan (e.g., Low Carbon Fuel Standard and Cap-and-Trade) have been adopted since the plan's approval.

CARB approved the 2013 Scoping Plan Update in May 2014. The update defined CARB's climate change priorities for the next five years and set the groundwork to reach post-2020 statewide goals. The update highlighted California's progress toward meeting the "near-term" 2020 GHG emission reduction goals defined in the original Scoping Plan. It also evaluated how to align the state's longer term GHG reduction strategies with other state policy priorities, including those for water, waste, natural resources, clean energy, transportation, and land use (CARB 2014).

On September 8, 2016, the governor signed Senate Bill (SB) 32 into law, extending the California Global Warming Solutions Act of 2006 by requiring the state to further reduce GHG emissions to 40 percent below 1990 levels by 2030 (the other provisions of AB 32 remain unchanged). On December 14, 2017, CARB adopted the 2017 Scoping Plan, which provides a framework for achieving the 2030 target. The 2017 Scoping Plan relies on the continuation and expansion of existing policies and regulations, such as the Cap-and-Trade Program, and implementation of recently adopted policies and legislation, such as SB 1383 (detailed below). The 2017 Scoping Plan also puts an increased emphasis on innovation, adoption of existing technology, and strategic investment to support its strategies. As with the 2013 Scoping Plan Update, the 2017 Scoping Plan does not provide project-level thresholds for land use development. Instead, it recommends that local governments adopt policies and locally appropriate quantitative thresholds consistent with statewide per capita goals of six metric tons (MT) of CO_2e by 2030 and two MT CO_2e by 2050 (CARB 2017b). As stated in the 2017 Scoping Plan, these goals may be appropriate for plan-level analyses (city, county, sub-regional, or regional level), but not for specific individual projects because they include all emissions sectors in the state (CARB 2017b).

SENATE BILL 375

SB 375, signed in August 2008, enhances the state's ability to reach AB 32 goals by directing the CARB to develop regional GHG emission reduction targets to be achieved from passenger vehicles by 2020 and 2035. SB 375 aligns regional transportation planning efforts, regional GHG reduction targets, and affordable housing allocations. Metropolitan Planning Organizations (MPOs) are required to adopt a Sustainable Communities Strategy (SCS), which allocates land uses in the MPO's Regional Transportation Plan. Qualified projects consistent with an approved SCS or Alternative Planning Strategy (categorized as "transit priority projects") would receive incentives to streamline CEQA processing.

On March 22, 2018, CARB adopted updated regional targets for reducing GHG emissions from 2005 levels by 2020 and 2035. SCAG was assigned targets of an 8 percent reduction in GHGs from transportation sources by 2020 and a 19 percent reduction in GHGs from transportation sources by 2035. In the SCAG region, SB 375 also provides the option for the coordinated development of sub regional plans by the sub regional councils of governments and the county transportation commissions to meet SB 375 requirements.

SENATE BILL 1383

Adopted in September 2016, SB 1383 requires CARB to approve and begin implementing a comprehensive strategy to reduce emissions of short-lived climate pollutants. SB 1383 requires the strategy to achieve the following reduction targets by 2030:

- Methane – 40 percent below 2013 levels
- Hydrofluorocarbons – 40 percent below 2013 levels
- Anthropogenic black carbon – 50 percent below 2013 levels

SB 1383 also requires the California Department of Resources Recycling and Recovery (CalRecycle) in consultation with the CARB, to adopt regulations that achieve specified targets for reducing organic waste in landfills.

SENATE BILL 100

Adopted on September 10, 2018, SB 100 supports the reduction of GHG emissions from the electricity sector by accelerating the state's Renewables Portfolio Standard Program, which was last updated by SB 350 in 2015. SB 100 requires electricity providers to increase procurement from eligible renewable energy resources to 33 percent of total retail sales by 2020, 44 percent by 2024, 60 percent by 2030, and 100 percent by 2045.

EXECUTIVE ORDER B-55-18

On September 10, 2018, the governor issued Executive Order B-55-18, which established a new statewide goal of achieving carbon neutrality by 2045 and maintaining net negative emissions thereafter. This goal is in addition to the existing statewide GHG reduction targets established by SB 375, SB 32, SB 1383, and SB 100.

CALIFORNIA ENVIRONMENTAL QUALITY ACT

Pursuant to the requirements of SB 97, the California Natural Resources Agency has adopted amendments to the CEQA Guidelines for determining the effects and feasible mitigation of GHG emissions. The adopted CEQA Guidelines provide general regulatory guidance on the analysis and mitigation of GHG emissions in CEQA documents while giving lead agencies the discretion to set quantitative or qualitative thresholds for the assessment and mitigation of GHGs and climate change impacts. To date, a variety of air districts have adopted quantitative significance thresholds for GHGs.

Regional and Local Regulations

2020-2045 REGIONAL TRANSPORTATION PLAN/SUSTAINABLE COMMUNITIES STRATEGY

On May 7, 2020, SCAG's Regional Council adopted the 2020-2045 RTP/SCS (titled Connect SoCal) for federal transportation conformity purposes and considered approval of the full plan and for all other purposes within 120 days of this date. Following initial adoption, SCAG formally adopted the 2020-2045 RTP/SCS on September 3, 2020 to provide a roadmap for sensible ways to expand transportation options, improve air quality and bolster Southern California's long-term economic viability. The 2020-2045 RTP/SCS builds upon the progress made through implementation of the 2016-2040 RTP/SCS and includes ten goals focused on promoting economic prosperity, improving mobility, protecting the environment, and supporting healthy/complete communities. The SCS implementation strategies include focusing growth near destinations and mobility options, promoting diverse housing choices, leveraging technology innovations, and supporting implementation of sustainability policies. The SCS establishes a land use vision of center-focused placemaking, concentrating growth in and near Priority Growth Areas, transferring of development rights, urban greening, creating greenbelts and community separators, and implementing regional advance mitigation (SCAG 2020b).

CITY OF POMONA GREEN PLAN

Adopted in November of 2012, the City of Pomona's Green Plan (2012b) sets a 2020 target to achieve a 15 percent reduction below community wide GHG emissions and identifies actions to achieve the target. The City's Green Plan contains GHG-reduction policies for transportation, land use, energy use, water management, and waste reduction and recycling.

Appended to the City's Green Plan is the Energy Action Plan (EAP), which includes a GHG emissions inventory, reduction targets through 2020, community-wide and municipal energy efficiency strategies, and implementation policies (City of Pomona 2012a).

3.2 Impact Analysis

Methodology

Calculations of CO_2, CH_4, and N_2O emissions are provided to estimate the proposed project's potential GHG emissions. Calculations are based on the methodologies discussed in the CAPCOA (2008) *CEQA and Climate Change* white paper and guidance from CARB. GHG emissions associated with the proposed project were calculated using CalEEMod version 2016.3.2 (see Appendix B for CalEEMod results).

Construction Emissions

Construction emissions were modeled in accordance with the methodology outlined in Section 2.2, *Methodology*, under Section 2, *Air Quality*. Complete results from CalEEMod and assumptions can be viewed in Appendix B. In accordance with SCAQMD's recommendation, GHG emissions from construction of the proposed project were amortized over a 30-year period and added to annual operational emissions to determine the project's total annual GHG emissions.

Operational Emissions

In CalEEMod, operational sources for area, energy, and mobile sources were modeled in accordance with the methodology outlined in Section 2.2, *Methodology*, under Section 2, *Air Quality*. As mentioned in Section 2.2, CalEEMod does not contain a land use directly correlated to open space and road use; the project's open space and road attributed to the "City Park" and "Other Asphalt Surfaces" land use subtype, with water use modified for the unique characteristics of an open space and road, as described below.

Energy Sources

Emissions from energy use include electricity and natural gas use. The emissions factors for natural gas combustion are based on EPA's AP-42 (*Compilation of Air Pollutant Emissions Factors*) and California Climate Action Registry (CCAR) General Reporting Protocol (CCAR 2009). Electricity emissions only apply to GHG emissions (as the energy is generated off-site and therefore may not be relevant for local and regional air quality conditions) and are calculated by multiplying the energy use times the carbon intensity of the utility district per kilowatt hour (CAPCOA 2017). The default electricity consumption values in CalEEMod include the CEC-sponsored California Commercial End Use Survey (CEUS) and Residential Appliance Saturation Survey (RASS) studies. CalEEMod currently incorporates California's 2016 Title 24 building energy efficiency standards; as described under Regulatory Framework, the 2019 Title 24 standards will be in effect on January 1, 2020. As the project is planned for construction beginning in 2021, with an operational date of 2023, it would be subject to at least 2019 Title 24 standards. According to the CEC, single-family homes built with the 2019 standards will use about 7 percent less energy due to energy efficiency measures versus those built under the 2016 standards, or 53 percent less energy with rooftop solar (CEC 2018). As CalEEMod only allows for a general reduction in energy use compared to the 2016 Title 24 standards, a 7 percent reduction was conservatively inputted into the model for the project's energy use.

To account for the energy reduction from rooftop solar, in accordance with Section 150.1(b)14 of the 2019 Building Energy Efficiency Standards, the project would be required to install PV systems on all residences equal to the expected electricity usage. As such, the project would be required to include a PV system of 48 kilowatts (kW) to offset energy use. Assuming that the average PV system generates approximately 1,800 kilowatt-hours (kWh) per kW per year, the 48 kW PV system would generate approximately 90,850 kWh of electricity per year. Therefore, the energy reduction achieved by the requisite on-site PV system was included in CalEEMod as "mitigation" for the project's energy use emissions, which is a term of art for the modeling input and is not equivalent to mitigation measures that may apply to the CEQA impact analysis.

The project would be served by SCE. Therefore, SCE's energy intensity factors (i.e., the amount of CO_2, CH_4, and N_2O per kilowatt-hour) were used to conservatively calculate GHG emissions. As of 2012, SCE procured 20.6 percent of its electricity from renewable sources (SCE 2012). Per SB 100, the statewide RPS Program requires electricity providers to increase procurement from eligible renewable energy sources to 33 percent by 2020 and 60 percent by 2030. The default SCE energy intensity factors included in CalEEMod are based on data from 2012. Therefore, the 2012 intensity factor of 702 pounds per megawatt hour (MWh) for CO_2e was used to calculate energy intensity in 2023 in compliance with the substantial progress towards the RPS Program goals. As the project's GHG threshold is based upon 2030 goals (as described further below), the 2023 energy intensity factors were included in CalEEMod for the proposed project scenario. SCE energy intensity factors that include this reduction are shown in Table 8.

Table 8 SCE Energy Intensity Factors

	2009 (lbs/MWh)[1]	2023 (lbs/MWh)[1,2]
Percent Procurement	20.6	45
Carbon Dioxide (CO_2)	702.44	489.42
Methane (CH_4)	0.029	0.02
Nitrous Oxide (N_2O)	0.006	0.004

WASTE SOURCES

GHG emissions from waste generation were also calculated in CalEEMod and are based on the IPCC's methods for quantifying GHG emissions from solid waste using the degradable organic content of waste (CAPCOA 2017). Waste disposal rates by land use and overall composition of municipal solid waste in California was primarily based on data provided by the California Department of Resources Recycling and Recovery (CalRecycle). According to a CalRecycle report to the Legislature, as of 2013 California had achieved a statewide 50 percent diversion of solid waste from landfills through "reduce/recycle/compost" programs (CalRecycle 2015). Therefore, a 26 percent reduction was added in order to reach the CalRecycle solid waste diversion rate of 76 percent.

WATER AND WASTEWATER SOURCES

GHG emissions from water and wastewater usage calculated in CalEEMod were based on the default electricity intensity from the CEC's 2006 Refining Estimates of Water-Related Energy Use in California using the average values for northern and southern California. A 20 percent reduction in indoor potable water use was incorporated in the model in accordance with CALGreen standards.

NITROUS OXIDE EMISSIONS

Because CalEEMod does not calculate N_2O emissions from mobile sources, N_2O emissions were quantified using guidance from CARB and the EMFAC2017 Emissions Inventory for the Los Angeles County region for the project's operational year (2023) using the EMFAC2011 categories (CARB 2019a and 2019b; see Appendix B for calculations).

Significance Thresholds

Based on Appendix G of the CEQA Guidelines, impacts related to GHG emissions from the project would be significant if the project would:

- Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment
- Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases

In addition, CEQA Guidelines Section 15064.4(b) states that a lead agency should consider the following factors, among others, when assessing the significance of impacts from GHG emissions on the environment:

- The extent to which the project may increase or reduce GHG emissions as compared to the existing environmental setting;
- Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project; and
- The extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions. Such requirements must be adopted by the relevant public agency through a public review process and must reduce or mitigate the project's incremental contribution of GHG emissions.

Individual projects do not generate enough GHG emissions to substantially influence climate change. However, physical changes caused by a project can contribute incrementally to cumulative effects that may be significant, even if individual changes resulting from a project are limited. The issue of climate change typically involves an analysis of whether a project's contribution towards an impact would be cumulatively considerable. "Cumulatively considerable" means that the incremental effects of an individual project are significant when viewed in connection with the effects of past projects, other current projects, and probable future projects (CEQA Guidelines, Section 15064[h][1]).

To determine a project-specific threshold, guidance on GHG significance thresholds in the region from SCAQMD, the air district in which the project site is located, was used. The SCAQMD's GHG CEQA Significance Threshold Working Group considered a tiered approach to determine the significance of residential and commercial projects. The draft tiered approach is outlined in meeting minutes dated September 29, 2010 (SCAQMD 2010):

- **Tier 1.** If the project is exempt from further environmental analysis under existing statutory or categorical exemptions, there is a presumption of less than significant impacts with respect to climate change. If not, then the Tier 2 threshold should be considered.
- **Tier 2.** Consists of determining whether the project is consistent with a GHG reduction plan that may be part of a local general plan, for example. The concept embodied in this tier is equivalent

to the existing concept of consistency in CEQA Guidelines Section 15064(h)(3), 15125(d) or 15152(a). Under this Tier, if the proposed project is consistent with the qualifying local GHG reduction plan, it is not significant for GHG emissions. If there is not an adopted plan, then a Tier 3 approach would be appropriate.

- **Tier 3.** Establishes a screening significance threshold level to determine significance. The Working Group has provided a recommendation of 3,000 MT CO_2e per year for non-industrial projects.
- **Tier 4.** Establishes a service population threshold to determine significance. The Working Group has provided a recommendation of 4.8 MT CO_2e per year for land use projects.

Tier 1 would not apply to the project as it is not exempt from environmental analysis. For Tier 2, while the City has not adopted a qualified GHG reduction plan at the time of this analysis. Therefore, for a project-specific threshold, the City of Pomona has selected SCAQMD's 3,000 MT CO_2e per year threshold for non-industrial projects as the applicable project-specific threshold, in accordance with Tier 3. The SCAQMD's 3,000 MT CO_2e per year threshold was determined based upon a 90 percent capture rate of GHG emissions (i.e., 90 percent of emissions would occur for projects that exceed the 3,000 MT CO_2e per year threshold, and therefore mitigation is focused upon those projects). In addition, the threshold is frequently used by jurisdictions across southern California to determine GHG emissions impacts from commercial projects.

Impact Analysis

Threshold 1	Would the project generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment? **LESS THAN SIGNIFICANT**

GHG Emissions Quantification

CONSTRUCTION EMISSIONS

As shown in Table 9, construction activity for the project would generate an estimated 621 MT of CO_2e. When amortized over a 30-year period, construction of the project would generate approximately 21 MT of CO_2e per year.

Table 9 Estimated Construction Greenhouse Gas Emissions

Construction Year	Annual Emissions MT CO_2e
2021	541
2022	80
Total Emissions	621
Amortized over 30 years	21

Notes: See Appendix B for modeling results. Some numbers may not add up precisely due to rounding considerations.

OPERATIONAL AND TOTAL PROJECT EMISSIONS

Table 10 combines the construction and operational GHG emissions associated with development of the project. As shown, annual emissions from the proposed project would be approximately 520 MT of CO_2e. These emissions would not exceed SCAQMD's 3,000 MT of CO_2e per year threshold. Therefore, impacts from GHG emissions would be less than significant.

Table 10 Estimated Annual Greenhouse Gas Emissions

Emission Source	Annual Emissions MT CO_2e
Construction	21
Operational	
Area	7
Energy	86
Mobile	376
Solid Waste	19
Water	11
Net Total	**520**
SCAQMD Threshold	3,000
Exceeds Threshold?	**No**

Notes: Emissions modeling was completed using CalEEMod, except for N_2O mobile emissions (see Section 3.1 for methodology). See Appendix B for modeling results and N_2O emissions calculations. Some numbers may not add up precisely due to rounding considerations.

Threshold 2	Would the project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs? **LESS THAN SIGNIFICANT**

Consistency with Applicable Plans and Policies

There are numerous State plans, policies, and regulations adopted for the purpose of reducing GHG emissions. The principal State plan and policy is AB 32, the California Global Warming Solutions Act of 2006, and the follow up, SB 32. The quantitative goal of AB 32 is to reduce GHG emissions to 1990 levels by 2020 and the goal of SB 32 is to reduce GHG emissions to 40 percent below 1990 levels by 2030. Statewide plans and regulations such as GHG emissions standards for vehicles (AB 1493), the Low Carbon Fuel Standard, and regulations requiring an increasing fraction of electricity to be generated from renewable sources are being implemented at the statewide level; as such, compliance at a project level is not addressed. Therefore, the project does not conflict with statewide plans and regulations.

Senate Bill 375, signed in August 2008, directs each of the State's 18 major MPO to prepare a SCS that contains a growth strategy to meet these emission targets for inclusion in the RTP. SCAG's RTP/SCS includes a commitment to reduce emissions from transportation sources by promoting compact and infill development to comply with SB 375. The proposed residential project would not conflict with any of the SCAG's RTP/SCS goals, as outlined in Table 11.

Table 11 Consistency with Applicable SCAG RTP/SCS GHG Emission Reduction Strategies

Strategy/Action	Project Consistency
Focus Growth Near Destinations & Mobility Options ▪ Emphasize land use patterns that facilitate multimodal access to work, educational and other destinations ▪ Focus on a regional jobs/housing balance to reduce commute times and distances and expand job opportunities near transit and along center-focused main streets ▪ Plan for growth near transit investments and support implementation of first/last mile strategies. ▪ Promote the redevelopment of underperforming retail developments and other outmoded nonresidential uses ▪ Prioritize infill and redevelopment of underutilized land to accommodate new growth, increase amenities and connectivity in existing neighborhoods ▪ Encourage design and transportation options that reduce the reliance on and number of solo car trips (this could include mixed uses or locating and orienting close to existing destinations) ▪ Identify ways to "right size" parking requirements and promote alternative parking strategies (e.g. shared parking or smart parking)	**Consistent.** The project would involve the demolition of an existing church and construction of single-family residential units, open area, and associated road and parking that would include a net increase of 33 residents. The proposed project would be within walking and biking distance of existing residential, commercial, and recreational uses In addition, the project is located adjacent to West Orange Grove Avenue which is serviced by Foothill Transit Bus Line 197 and the nearest bus stop located approximately 575 feet southwest of the site . These features would incentivize the use of public transit, active transportation, and fuel-efficient vehicles for traveling to and from the site. Therefore, the proposed project would focus growth near destinations and mobility options.
Promote Diverse Housing Choices ▪ Preserve and rehabilitate affordable housing and prevent displacement ▪ Identify funding opportunities for new workforce and affordable housing development ▪ Create incentives and reduce regulatory barriers for building context-sensitive accessory dwelling units to increase housing supply ▪ Provide support to local jurisdictions to streamline and lessen barriers to housing development that supports reduction of greenhouse gas emissions	**Consistent.** The project would involve demolition of a church and construction of 33 single-family units, which would increase housing supply from the existing housing conditions.
Leverage Technology Innovations ▪ Promote low emission technologies such as neighborhood electric vehicles, shared rides hailing, car sharing, bike sharing and scooters by providing supportive and safe infrastructure such as dedicated lanes, charging and parking/drop-off space ▪ Improve access to services through technology—such as telework and telemedicine as well as other incentives such as a "mobility wallet," an app-based system for storing transit and other multi-modal payments ▪ Identify ways to incorporate "micro-power grids" in communities, for example solar energy, hydrogen fuel cell power storage and power generation	**Consistent.** The project would incorporate all applicable measures of the 2020 CALGreen Building Standards, which are comparable (and more stringent in certain categories) than LEED standards. All residential units would be equipped with solar PV systems, high efficiency insulation, high efficiency water heaters, energy efficient LED lighting fixtures, high-efficiency temperature control systems, MERV-13 air filters, and water-efficient appliances and fixtures. Proposed buildings would be equipped for electricity and natural gas use.

Strategy/Action	Project Consistency
Support Implementation of Sustainability Policies ▪ Pursue funding opportunities to support local sustainable development implementation projects that reduce GHG emissions ▪ Support statewide legislation that reduces barriers to new construction and that incentivizes development near transit corridors and stations ▪ Support local jurisdictions in the establishment of Enhanced Infrastructure Financing Districts (EIFDs), Community Revitalization and Investment Authorities (CRIAs), or other tax increment or value capture tools to finance sustainable infrastructure and development projects, including parks and open space ▪ Work with local jurisdictions/communities to identify opportunities and assess barriers to implement sustainability strategies ▪ Enhance partnerships with other planning organizations to promote resources and best practices in the SCAG region ▪ Continue to support long range planning efforts by local jurisdictions ▪ Provide educational opportunities to local decision makers and staff on new tools, best practices and policies related to implementing the Sustainable Communities Strategy	**Consistent.** The project would be designed and operated to meet the applicable requirements of CALGreen and the City's Green Plan. The project's indoor water use would be minimized by 20 percent. Furthermore, energy use would be reduced by 30 to account for requirements of 2019 Title 24 standards. Additionally, the project would incorporate landscape drip irrigation and smart irrigation controllers for both common and private areas. Therefore, the project would support implementation of sustainability policies
Promote a Green Region ▪ Support development of local climate adaptation and hazard mitigation plans, as well as project implementation that improves community resiliency to climate change and natural hazards ▪ Support local policies for renewable energy production, reduction of urban heat islands and carbon sequestration ▪ Integrate local food production into the regional landscape ▪ Promote more resource efficient development focused on conservation, recycling and reclamation ▪ Preserve, enhance and restore regional wildlife connectivity ▪ Reduce consumption of resource areas, including agricultural land ▪ Identify ways to improve access to public park space	**Consistent**. The project would involve the demolition of an existing church and construction of 33 single family residential units, an open area, and associated parking and would therefore not interfere with regional wildlife connectivity or convert agricultural land. The project would comply with Pomona's Green Plan, Title 24, and CALGreen. Therefore, the project would support development of a green region.

Source: SCAG 2020

The City's General Plan, Green Plan, and EAP also contain a number of policies that would reduce citywide levels of GHG emissions under 2035 buildout. Table 12 illustrates the project's consistency with relevant goals and policies of the City's General Plan, Green Plan, and EAP.

Table 12 Project Consistency with Applicable General Plan, Green Plan, and Energy Action Plan Implementation Strategies

Goals, Policies, and Actions	Project Consistency
City of Pomona General Plan	
6E.P1. Permit a range of multi-family residential and residentially compatible development types in clusters at major crossroads throughout the City as identified in Figure 6.3 *Pomona Tomorrow* and Figure 7-A.8 *Transect Tomorrow*.	**Consistent.** The project entails demolition of an existing church and construction of 33 dwelling units that would consist of 33 detached single-family homes. The project site is surrounded by existing residential, commercial, and recreational uses. Implementation of the project would intensify the project site with residential uses that would be compatible with existing uses in the project area. Therefore, the project would be consistent with Policy 6E.P1.
7E.P22. Minimize emissions from residential and commercial uses through the following: ▪ Encourage new development to incorporate sustainability design solutions such as those outlines in the LEED rating systems ▪ Require high efficiency heating and other appliance, such as cooking equipment, refrigerators, furnaces and low NO_x water heaters in new and renovated residential units ▪ Require new residential and commercial buildings to comply with or exceed requirements of CCR Title 24 ▪ Encourage passive solar building design and landscaping conducive to passive solar energy use for both residential and commercial uses, (e.g., building orientation in a south to southeast direction, planting deciduous trees on west sides of structures, landscaping with drought resistant species, and use of groundcover rather than pavement to reduce heat reflection) ▪ Encourage the use of battery-powered, electric, or other similar equipment that does not impact local air quality for non-residential maintenance activities ▪ Provide natural gas hookups to fireplaces or require residential use of EPA-certified wood stoves, pellet stoves, or fireplace inserts	**Consistent.** The project would incorporate all applicable measures of the 2020 CALGreen Building Standards, which are comparable (and more stringent in certain categories) than LEED standards. All residential units would be equipped with solar PV systems, high efficiency insulation, high efficiency water heaters, energy efficient LED lighting fixtures, high-efficiency temperature control systems, MERV-13 air filters, and water-efficient appliances and fixtures. Proposed buildings would be equipped for electricity and natural gas use. Therefore, the project would be consistent with Policy 7E.P22.
7E.P24. For both private and public construction in new development and renovations, encourage rainwater and wastewater Best Management Practices (BMPs) to minimize rainwater runoff, and maximize rainwater and greywater collection and reuse.	**Consistent.** The project would include smart irrigation system for all proposed landscaped areas, and a drip irrigation system would be used for both common and private areas. Therefore, the project would be consistent with Policy 7E.P24.
Policy 7E.P25. Encourage the use of water efficient appliances and fixtures in new development and upgrades in existing development.	**Consistent.** The project would include water-efficient appliances and fixtures in every residential unit in accordance with the 2019 Title 24 standards. Sustainable design features specifically proposed by the project applicant include water efficient irrigation system and low flow plumbing fixtures to reduce operational water consumption.

Goals, Policies, and Actions	Project Consistency
7E.P26. Encourage low water use irrigation such as drip irrigation and rainwater capture systems.	**Consistent.** The project would include smart irrigation system for all proposed landscaped areas, and a drip irrigation system would be used for both common and private areas. Therefore, the project would be consistent with Policy 7E.P26.
7E.P27. Encourage the use of drought tolerant plant species (especially native plants), and low water use irrigation such as drip irrigation and rainwater capture systems.	**Consistent.** The project would include smart irrigation system for all proposed landscaped areas, and a drip irrigation system would be used for both common and private areas. Therefore, the project would be consistent with Policy 7E.P27.
7E.P41. Promote energy efficient patterns of development by implementing the vision of compact, clustered, transit-oriented City structure outlined in Section 6 of Pomona Tomorrow (General Plan).	**Consistent.** The project entails demolition of an existing church and construction of 33 dwelling units that would consist of 33 detached single-family homes. The project site is surrounded by existing residential, commercial, and recreational uses. Implementation of the project would intensify the project site with residential uses that would be compatible with existing uses in the project area. Therefore, the project would be consistent with Policy 7E.P41.
City of Pomona Green Plan	
1.2.2. Promote infill development to maximize land use efficiencies and the optimum utilization of the limited vacant land remaining in the City.	**Consistent.** The project site is located within a highly urbanized area. Implementation of the project would intensify uses at the site. Therefore, the project would be consistent with Policy 1.2.2.
1.2.3. Promote higher densities and a mix of uses in the downtown, transit centers, and activity centers and along transportation corridors.	**Consistent.** The project site is located along West Orange Grove Avenue which is identified as a crucial transportation corridor for the Hacienda Park Historic District and Wilton Heights Historic District. Implementation of the project would entail development with intensified residential uses for the site, which would complement existing residential, commercial and recreational uses in the vicinity. Therefore, the project would be consistent with Policy 1.2.3.
1.2.5. Encourage new housing and mixed-use developments be built to LEED standards for neighborhood development (LEED ND) or its equivalent.	**Consistent.** The project incorporates design elements and materials to comply with applicable measures in the 2020 CALGreen Building Standards, which is comparable (and more stringent in certain categories) than LEED standards. The project applicant is not seeking LEED certification for the project; however, projects that are compliant with 2020 CALGreen Building Standards are pre-approved for streamlining of fundamental LEED requirements. Therefore, the project would be consistent with Policy 1.2.5.
1.4.2. Require new developments to provide in-lieu fees or dedicated lands.	**Consistent.** The project would be required to contribute fair-share in-lieu fees for open spaces or development of parks and recreational resources. Therefore, the project would be consistent with Policy 1.4.2.

Goals, Policies, and Actions	Project Consistency
6.5.1. Promote low-impact development in the community. ▪ Through incentives, encourage the use of native plants (or adaptable species) to establish an adaptable and low-maintenance landscape that requires less irrigation and is appropriate for the climatic conditions. ▪ Through incentives, encourage low-water-use irrigation such as drip irrigation and rainwater capture systems.	**Consistent.** The project would include smart irrigation system for all proposed landscaped areas, and a drip irrigation system would be used for both common and private areas. Therefore, the project would be consistent with Policy 6.5.1.
City of Pomona Energy Action Plan	
Policy 3.3. Encourage the use of energy-efficient appliances and equipment in new buildings.	**Consistent.** The project would include water-efficient appliances in every residential unit in accordance with the 2019 Title 24 standards.
Policy 5.2. Promote the use of energy and water efficient fixtures for indoor use.	**Consistent.** The project would include smart irrigation system for all proposed landscaped areas, and a drip irrigation system would be used for both common and private areas. The project would incorporate all applicable measures of the 2020 CALGreen Building Standards, which are comparable (and more stringent in certain categories) than LEED standards). All residential units would be equipped with high-efficiency temperature control systems, and water-efficient appliances and fixtures.

Source: City of Pomona 2012a; 2012b; 2014

The project is consistent with State and local policies for reducing GHG emissions, including the Pomona General Plan, Green Plan, and EAP, and SCAG's 2020-2045 RTP/SCS. Therefore, the project would have a less than significant impact.

4 Conclusions and Recommendations

As detailed above, neither construction nor operation of the project would result in significant air quality or GHG emissions impacts. The project would be required to comply with the following RCMs, which were assumed in the modeling and analysis because the project is required to comply with them through state and local regulations.

Regulatory Compliance Measures

RCM-1 Demolition, Grading, and Construction Activities: Compliance with provisions of SCAQMD Rule 403.

The project shall comply with all applicable standards of the SCAQMD, including the following provisions of Rule 403:

- All unpaved demolition and construction areas shall be wetted at least twice daily during excavation and construction, and temporary dust covers shall be used to reduce dust emissions and meet SCAQMD Rule 403. Wetting could reduce fugitive dust by as much as 50 percent.
- The construction area shall be kept sufficiently dampened to control dust caused by grading and hauling, and at all times provide reasonable control of dust caused by wind.
- All clearing, earth moving, or excavation activities shall be discontinued during periods of high winds (i.e., greater than 15 miles per hour), so as to prevent excessive amounts of dust.
- All dirt/soil shall be secured by trimming, watering, or other appropriate means to prevent spillage and dust.
- All dirt/soil materials transported off-site shall be either sufficiently watered or securely covered to prevent excessive amounts of dust.
- General contractors shall maintain and operate construction equipment so as to minimize exhaust emissions.
- Trucks having no current hauling activity shall not idle but be turned off.

RCM-2 Odors: Compliance with Provisions of SCAQMD Rule 402

The project shall comply with the following provision of SCAQMD Rule 402: a person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.

RCM-3 Engine Idling

In accordance with Section 2485 of Title 13 of the California Code of Regulations, the idling of all diesel-fueled commercial vehicles (weighing over 10,000 pounds) during construction shall be limited to five minutes at any location.

RCM-4 Emission Standards

In accordance with Section 93115 of Title 17 of the California Code of Regulations, operation of any stationary, diesel-fueled, compression-ignition engines shall meet specified fuel and fuel additive requirements and emission standards.

RCM-5 Architectural Coatings: Compliance with SCAQMD Rule 1113

The project shall comply with SCAQMD Rule 1113 limiting the volatile organic compound (VOC) content of architectural coatings.

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Appendix A

Site Plan

2nd Submittal - September 14, 2020

Tract 83141 - Development Review Submittal Application

APN: 8358-009-006 & 009

Development Standards Compliance Chart			
Item	Zone	tract 83141	Remarks
A. Intent and Purpose	R-1-6,000 and PD Overlay District	In Compliance	33 Single Family Detached Residential Units
B. Permitted Uses	Residential	In Compliance	33 Single Family Detached Residential Units
C. Development Standards			
1. Site Area	Min. 1 Acres	In Compliance	The site is 3.60 Acres
2. Lot Area	Min. 4,500 SF	In Compliance	1 proposed at 156,816 SF
3. Unit Size	Min. 1,200 SF	In Compliance	Proposed units 1,687 to 1,955 SF
4. Building Coverage	Max. 30%	In Compliance	Proposed building coverage 26%
5. Building Height	Max. 35'	In Compliance	Proposed 27.79' max.
6. Set Backs			
6a.	5' Min. Perimeter set back when adjacent to existing public street	In Compliance	Min. 11' set back provided
6b.	Front Yard set back 18' Min. to garage & 15' to building or porch	In Compliance	A Min. of 18' to the garage & 15' to building and porch has been provide
6c.	5' Min. side yard	In Compliance	A Min. of 5' has been provide for each side yard
6d.	20' Min. rear yard set back	Minor Deviation Variance and a Variance are needed	The rear yard set backs of Lots 10-14 are less than 20'
7. Open Space			
7a.	Min. of 200 SF of private open space	In Compliance	An average of 1,047 SF of open space per lot has been provided
7b.	2.5% Min of common open space	In Compliance	9% of 14,150 SF of common open space has been provided
8. Parking			
8a.	Min. 2 covered parking spaces required	In Compliance	66 covered garage spaces have been provided
8a	9 guest parking spaced required for 33 single family detached	In Compliance	17 guest parking spaces have been provided
9. Streets	28' Min. Street width to accommodate quest parking	Variance is needed	2 additional quest parking spaces have been provided in the driveway of each residence for a total of 66
10. Pedestrian Circulation	Min. 3' wide sidewalk required on both side of the street	In Compliance	A min. 4' wide sidewalk has been provided on both side of the street
11. Architectural Style	Roof overhangs, roof material, roof pitch, siding material, grade siting, foundation &exterior siding materials	In Compliance	The architectural drawings have been designed to meet the architectural style requirements of section 0.229.7L
12. Wall & Fencing	Masonry Block Walls required	In Compliance	Min. 5'-6" interior masonry block walls and Min. 6'-0" perimeter walls have been provided
13. Landscaping	Min. 20% of entire parcel shall be fully landscaped	In Compliance	35,315 SF or 22.5% of project shall be fully landscaped

PROJECT SUMMARY INFORMATION

PROJECT AREA	3.60 ACRES
EXISTING ZONING:	R-1-6,000 /
PROPOSED ZONING:	PLANNED DEVELOPMENT OVERLAY DISTRICT
EXISTING GENERAL PLAN PLACE TYPE:	RESIDENTIAL NEIGHBORHOOD
PROPOSED GENERAL PLAN TRANSECT:	T3-2.5FLOOR MAX., 20 DU/AC MAX T4-B (RESIDENTIAL TRANSITIONS) 3FLOOR MAX., 20 DU.AC MAX.
PRIVATE OPEN SPACE	37,575 - AVERAGE 1,075 PER LOT
COMMON OPEN SPACE	14,150 SF - 9% OF PROJECT
LANDSCAPED AREA	35,315 SF = 22% OF THE PROJECT
BUILDING COVERAGE	40,590 SF = 26% COVERAGE

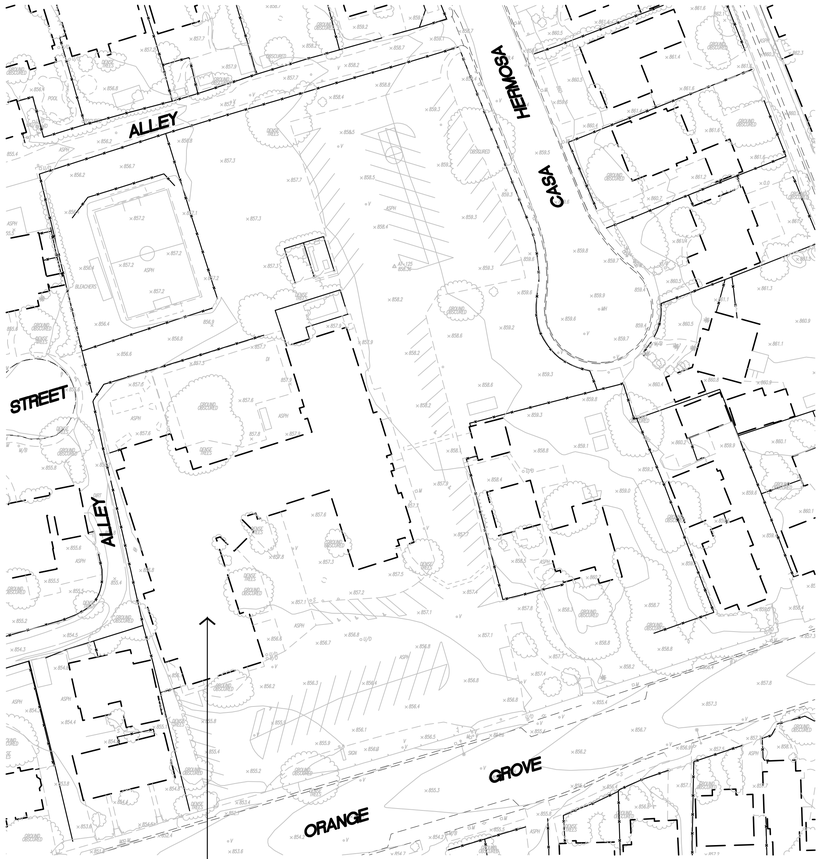
FLOOR PLAN INFO

OCCUPANCY: R-3U
BUILDING TYPE: VB

ITEM	PLAN 1	PLAN 2	PLAN 3
1ST STORY	747	747	803
2ND STORY	940	1,066	1,152
LIVING SPACE	1,687 SF	1,813 SF	1,955 SF
BEDROOMS	3	4	4
BATHROOMS	2.5	2.5	2.5
GARAGE	422	420	475
BUILDING HEIGHT	±27'	±27'	±27'
SIZE	32'x40'	32'x59.5'	32'x59.5'
STORIES	2	2	2
QUANTITY	5	17	11

PARKING SPACE REQUIREMENTS
33 UNITS TOTAL

TYPE	REQUIRED	PROVIDED
COVERED GARAGES	64	64
GUEST - OFF STREET	9	33
HANDICAPPED	2	2



Existing Church of the Brethren Site

Owner:

Pomona Fellowship Church of the Brethren
875 W. Orange Grove Avenue, Pomona, CA 91768

Applicant:

CrestWood COMMUNITIES
510 W. Citrus Edge Street, Glendora, CA 91740
626-914-1943

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A-12	Plan 3 roof plans
A-13	Exterior color schemes

SCALE: 1" = 50'

POMONA 33

A 33 unit single family detached residential development
875 W. Orange Grove Avenue, Pomona, CA 91768

REGISTERED LANDSCAPE ARCHITECT
PATRICK J. DIAZ
No. LA 3880
Exp. 3/31/22
STATE OF CALIFORNIA

REVISION	DATE	COMMENTS
1	08.27.20	PER PLANG COMMENTS 09.14.20
	-	-

OWNER:
Pomona Fellowship Church of the Brethren
875 W. Orange Grove Ave
Pomona, CA 91768
909-629-2548

ENGINEER OF RECORD:
MADOLE & ASSOCIATES, INC.
9302 Pittsburgh Avenue, Suite 230
Rancho Cucamonga, CA 91730
909-481-6322

DEVELOPER OF RECORD:
CRESTWOOD COMMUNITES
510 W. CITRUS EDGE STREET
GLENDORA, CA 91740
626-914-1943

THESE PLAN DRAWINGS ARE PROPRIETARY DOCUMENTS OF Crestwood Communities
THEY ARE NOT TO BE DISTRIBUTED, PUBLISHED OR REPRODUCED WITHOUT WRITTEN CONSENT. UNAUTHORIZED USE OR DISCLOSURE OF THESE PLANS IN WHOLE OR IN PART IS STRICTLY PROHIBITED.

PROJECT TITLE: Tract 83141 - 875 W. Orange Grove Avenue
SCALE: -
DESIGNED BY: -
DRAWN BY: -
DATE: 07/02/20
DRAWING TITLE: TITLE SHEET
SHEET # T 1

(FOR CONDOMINIUM PURPOSES)

TENTATIVE TRACT NO. 83141

IN THE CITY OF POMONA, COUNTY OF LOS ANGELES,
STATE OF CALIFORNIA

BEING A SUBDIVISION OF LOTS 32, 33, & 34 OF TRACT MAP 18030, AS PER MAP FILED IN BOOK 457, PAGES 17 THROUGH 18, INCLUSIVE OF MAPS, AND A PORTION OF THE RANCHO SAN JOSE, AS PER MAP FILED IN BOOK 2, PAGES 292 THROUGH 293, INCLUSIVE OF PATENTS, BOTH IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

1 NUMBERED LOT AND 3 LETTERED LOTS
3.60 ACRES GROSS

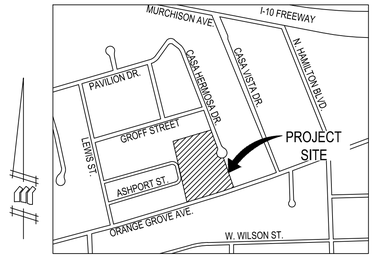
JULY, 2020

PROJECT NOTES:

1. TOTAL SITE AREA = 156,874.5 SQ. FT. (3.6 ACRES)
2. EXISTING SITE IMPERVIOUS AREA = 85,603 SQ. FT. (55%)
3. ADDRESS: 875 W. ORANGE GROVE AVENUE

APN:

8358-009-006; 8358-009-009; 8358-009-010



VICINITY MAP
NOT TO SCALE

EASEMENT NOTES:

7 AN EASEMENT FOR CONSTRUCTION AND MAINTENANCE OF A TUNNEL OR OPEN DITCH FOR THE CONVEYANCE OF WATER AND THE RIGHT TO CONNECT WITH SAID TUNNEL AND INCIDENTAL PURPOSES, RECORDED IN BOOK 1054, PAGE 149 OF DEEDS. (LOCATION UNDETERMINED).

(8) AN EASEMENT FOR PUBLIC UTILITIES AND INCIDENTAL PURPOSES RECORDED 12/27/1948 IN BOOK 29349 PAGE 72 FOR SOUTHERN CALIFORNIA EDISON COMPANY. (TO BE VACATED)

(9) AN EASEMENT FOR PUBLIC UTILITIES RECORDED IN BOOK 457, PAGE 17 OF MAPS. (TO BE VACATED)

BASIS OF BEARINGS:

THE BEARING OF N 73°31'30"E, ALONG THE CENTERLINE OF ORANGE GROVE AVENUE, AS SHOWN ON TRACT MAP No. 18030, AS PER MAP FILED IN BOOK 457, PAGES 17 THROUGH 18, INCLUSIVE OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF LOS ANGELES COUNTY.

LEGEND

EXIST.	EXISTING
C&G	CURB AND GUTTER
FH	FIRE HYDRANT
R/W	RIGHT OF WAY
PL	PROPERTY LINE
℄	CENTERLINE
x 869	SPOT ELEVATION
V	EXISTING 1' CONTOUR
V	EXISTING VALVE
V	EXISTING FIRE HYDRANT
	EXISTING BUILDING
	EXISTING CONCRETE
	EXISTING ASPHALT CONCRETE
S	EXISTING SEWER
W	EXISTING WATER
	RIGHT OF WAY
x x	EXISTING FENCE
MH	MANHOLE

SCALE: 1" = 30'

SCALE IN FEET
0 30 60 90

PROFESSIONAL LAND SURVEYOR
ANTHONY HARO
No. 7635
Exp: 12-31-2020
STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF:

ANTHONY HARO P.L.S. 7635

REV.	DATE	COMMENTS

OWNER:
POMONA FELLOWSHIP
CHURCH OF THE BRETHREN
510 W. 875 W. ORANGE GROVE AVE.
POMONA, CA 91768
909-629-2546

ENGINEER OF RECORD:
MADOLE & ASSOCIATES, INC.
6842 PITTSBURGH AVE., SUITE 200
RANCHO CUCAMONGA, CA 91730
PHONE: 909.481.6222
FAX: 909.481.6220
Engineering Communities for Life
JOB NO. 781-2874

DEVELOPER OF RECORD:
CRESTWOOD COMMUNITIES
510 W. CITRUS EDGE STREET
GLENDORA, CA 91740
626-914-1943

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PROPERTY TITLE: 875 W. ORANGE GROVE AVENUE
SCALE: AS SHOWN
DATE: JUNE, 2020
DRAWN BY: TS
CHECKED BY: WLI

TENTATIVE TRACT NO. 83141
EXISTING CONDITIONS

SHEET NO. 1 OF _

J.N. 781-2874 EXISTING CONDITIONS

(FOR CONDOMINIUM PURPOSES)

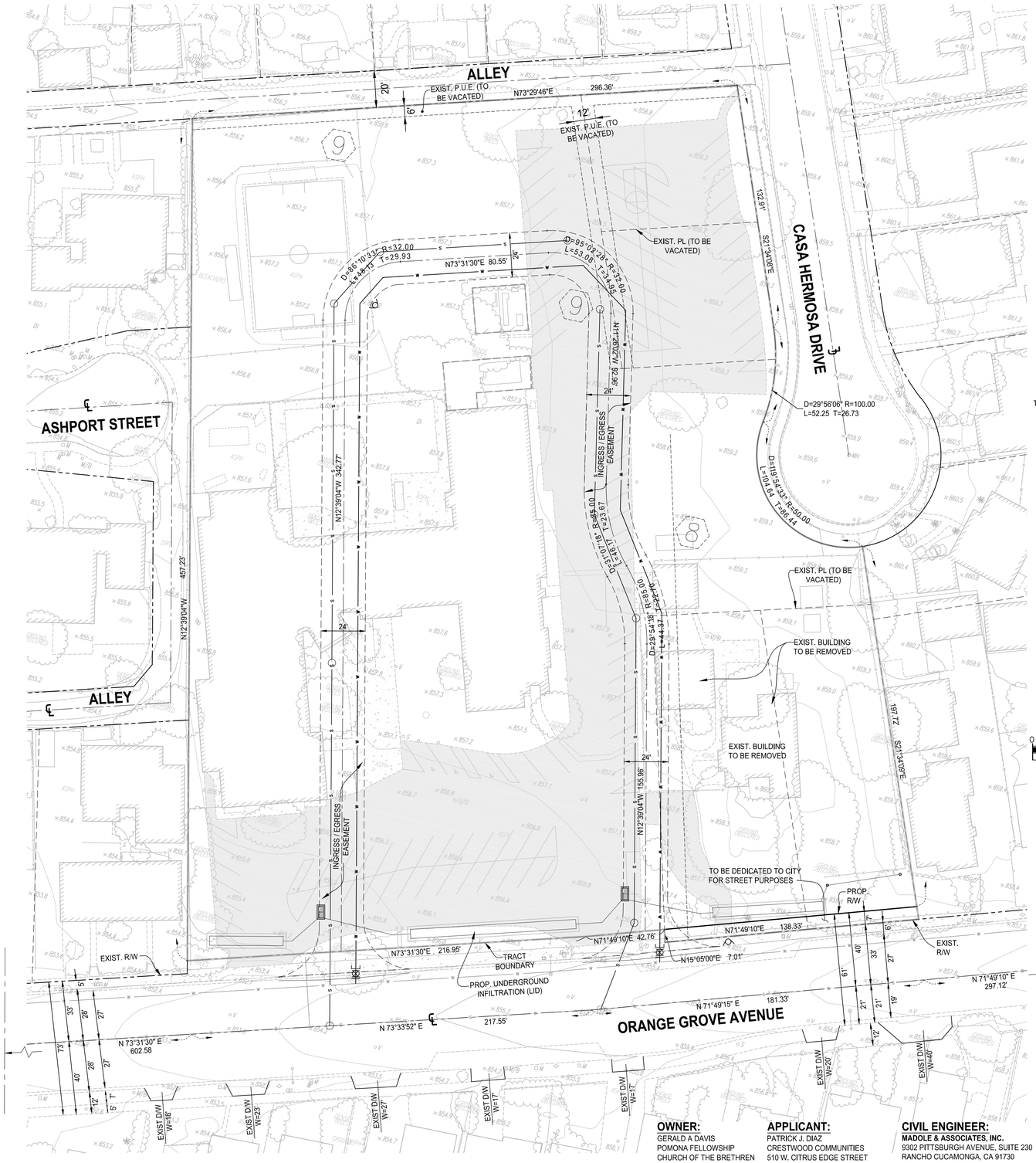
TENTATIVE TRACT NO. 83141

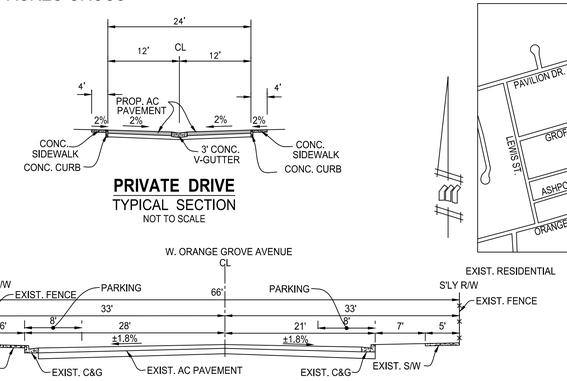
IN THE CITY OF POMONA, COUNTY OF LOS ANGELES,
STATE OF CALIFORNIA

BEING A SUBDIVISION OF LOTS 32, 33, & 34 OF TRACT MAP 18030, IN THE CITY OF POMONA, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP FILED IN BOOK 457, PAGES 17 THROUGH 18, INCLUSIVE OF MAPS, AND A PORTION OF THE RANCHO SAN JOSE, AS PER MAP FILED IN BOOK 2, PAGES 292 THROUGH 293, INCLUSIVE OF PATENTS, BOTH IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

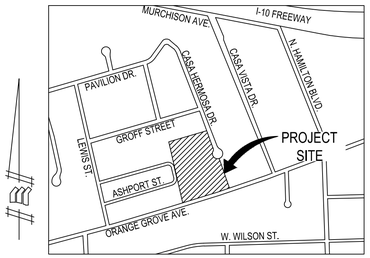
1 NUMBERED LOT AND 3 LETTERED LOTS
3.60 ACRES GROSS

JULY, 2020

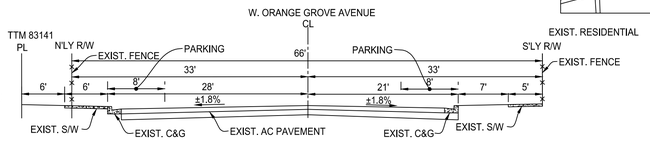




PRIVATE DRIVE
TYPICAL SECTION
NOT TO SCALE



VICINITY MAP
NOT TO SCALE



ORANGE GROVE AVE.
TYPICAL SECTION
SCALE: 1"=10'

LEGEND

PROP.	PROPOSED
EXIST.	EXISTING
C&G	CURB AND GUTTER
FH	FIRE HYDRANT
R/W	RIGHT OF WAY
PL	PROPERTY LINE
℄	CENTERLINE
x 869	SPOT ELEVATION
	EXISTING 1' CONTOUR
V	EXISTING VALVE
	EXISTING FIRE HYDRANT
	EXISTING BUILDING
	EXISTING CONCRETE (TO BE REMOVED)
	EXISTING ASPHALT CONCRETE (TO BE REMOVED)
S	PROPOSED SEWER
W	PROPOSED WATER
	PROPOSED WATER SERVICE
	RIGHT OF WAY
x x	EXISTING FENCE
MH	MANHOLE
	PROPOSED CONCRETE SIDEWALK
LID	LOW IMPACT DEVELOPMENT
CB	CATCH BASIN

SCALE: 1" = 30'

SCALE IN FEET
0 30 60 90

EASEMENT NOTES:

7 AN EASEMENT FOR CONSTRUCTION AND MAINTENANCE OF A TUNNEL OR OPEN DITCH FOR THE CONVEYANCE OF WATER AND THE RIGHT TO CONNECT WITH SAID TUNNEL AND INCIDENTAL PURPOSES, RECORDED IN BOOK 1054, PAGE 149 OF DEEDS. (LOCATION UNDETERMINED).

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(9) AN EASEMENT FOR PUBLIC UTILITIES RECORDED IN BOOK 457, PAGE 17 OF MAPS. (TO BE VACATED)

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THE BEARING OF N 73°31'30"E, ALONG THE CENTERLINE OF ORANGE GROVE AVENUE, AS SHOWN ON TRACT MAP No. 18030, AS PER MAP FILED IN BOOK 457, PAGES 17 THROUGH 18, INCLUSIVE OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF LOS ANGELES COUNTY.

BENCH MARK:

B.M. NO. 361 ELEV. 847.38'

L. AND T. ON CURB AT B.C.R. 55± OF C/L OF LEWIS STREET AND 30'± NORTH OF C/L OF ORANGE GROVE AVENUE

FLOOD ZONE :

THE LAND SHOWN HEREON LIES ENTIRELY WITHIN FLOOD ZONE "X" (UNSHADED), BEING DESCRIBED AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN " PER FLOOD INSURANCE RATE MAP (FIRM) - COMMUNITY PANEL NUMBER 06037C1725F, DATED SEPTEMBER 26, 2008.

PROJECT NOTES:

1. TOTAL SITE AREA = 156,874.5 SQ. FT. (3.6 ACRES)
2. SITE ADDRESS: 875 W. ORANGE GROVE AVENUE
3. EXISTING SITE IMPERVIOUS AREA = 85,603 SQ. FT. (55%)
4. PROPOSED SITE IMPERVIOUS AREA = 101,968 SQ. FT. (65% *CONDOMINIUM - TABLE 6.3.2 LA COUNTY HYDROLOGY MANUAL FOR MULTI-FAMILY DEVELOPMENT*).
5. PROPOSED LID: STORM WATER QUALITY RUNOFF AND NUISANCE/LOW FLOWS FROM THE PROJECT SITE WILL BE INTERCEPTED VIA AREA DRAIN AND CATCH BASIN AND ROUTED INTO UNDERGROUND INFILTRATION CHAMBERS ALONG THE SOUTHERN BOUNDARY LINE.
   A. UNDERGROUND INFILTRATION TO REMAIN 15' FROM BUILDING FOUNDATIONS.
   B. SIZE OF CHAMBERS MAY VARY UPON SITE SPECIFIC INFILTRATION TESTING PRIOR TO FINAL DESIGN.
5. STORMWATER RUNOFF EXCEEDING LID VOLUME WILL FLOW SOUTH INTO ORANGE GROVE AVENUE AND WESTERLY TOWARDS EXISTING CATCH BASINS ON THE NORTHEAST CORNER OF ORANGE GROVE AVENUE AND LEWIS STREET (APPROXIMATELY ±500' WEST OF PROJECT SITE).
6. PROJECT LOCATED IN AREA OF MINIMAL FLOOD HAZARD.
7. NO OFFSITE AREAS ARE TRIBUTARY TO THIS SUBDIVISION.
8. ALL EXISTING BUILDINGS, INFRASTRUCTURE, CONCRETE, ASPHALT, AND LANDSCAPING TO BE REMOVED (UNLESS OTHERWISE NOTED).
9. THE PROJECT WILL COMPLY WITH ANY PARK / LAND DEDICATION RESOLUTION NO. 89-200
10. THE LOCATION OF ANY PREVIOUSLY FILLED AREAS WILL BE DESIGNATED BY THE SOILS ENGINEER.
11. ANY EXISTING WELLS, IRRIGATION LINES, CESSPOOLS, SEPTIC TANKS, SEWAGE LEACH FIELDS, SEWERS, CULVERTS, STORM DRAINS, AND UNDERGROUND STRUCTURES WILL BE REMOVED.
   A. THE LOCATION OF ANY OF THESE EXISTING ITEMS IS CURRENTLY UNKNOWN.
12. BUS STOPS:
   A. ± 500' WEST AT NORTHEAST CORNER OF ORANGE GROVE AVENUE AND LEWIS STREET.
   B. ±960' EAST AT NORTHEAST CORNER OF ORANGE GROVE AVENUE AND N. HAMILTON BOULEVARD.

SURVEYOR'S NOTES:

1. PROPOSED LOTS: 1 NUMBERED LOT AND 3 LETTERED LOTS.
2. ASSESSOR'S PARCELS: 8358-009-006; 8358-009-009; 8358-009-010
3. GENERAL PLAN DESIGNATION: RESIDENTIAL NEIGHBORHOOD
4. EXISTING USE: CHURCH
   PROPOSED USE: DETACHED CONDOMINIUMS
5. EXISTING ZONING: R-1-6, 000
   PROPOSED ZONING: PLANNED DEVELOPMENT OVERLAY DISTRICT
   SETBACKS - FRONT: GARAGE: 18'
   BUILDING: 15'
   SIDE: 5'
   REAR: 15'
   POTENTIAL RESIDENTIAL DENSITY: 9.17 UNITS PER ACRE
6. UTILITIES:
   SEWER CITY OF POMONA
   WATER CITY OF POMONA
   ELECTRIC SOUTHERN CALIFORNIA EDISON
   GAS SOUTHERN CALIFORNIA GAS COMPANY
   PHONE GTE
7. MAP AREA: 156,874.50 SQ. FT. (3.60 ACRES)
8. LOT "A" RESERVED HEREON FOR PARCEL PURPOSES & CELL TOWER LEASE WITH INGRESS AND EGRESS ACCESS FOR MAINTENANCE PURPOSES
9. LOT "B" TO BE DEDICATED TO THE CITY OF POMONA FOR STREET PURPOSES
10. LOT "C" RESERVED HEREON FOR INGRESS AND EGRESS PURPOSES AND FOR PUBLIC UTILITY PURPOSES

PROFESSIONAL LAND SURVEYOR ANTHONY HARO No. 7635 Exp: 12-31-2020 STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF:

ANTHONY HARO P.L.S. 7635

OWNER:
GERALD A DAVIS
POMONA FELLOWSHIP
CHURCH OF THE BRETHREN
875 W. ORANGE GROVE
AVENUE
POMONA, CA 91768
909-629-2548

APPLICANT:
PATRICK J. DIAZ
CRESTWOOD COMMUNITIES
510 W. CITRUS EDGE STREET
GLENDORA, CA 91740
626-914-1943 EXT. 250
pdiaz@crestwoodcommunities.com

CIVIL ENGINEER:
MADOLE & ASSOCIATES, INC.
9302 PITTSBURGH AVENUE, SUITE 230
RANCHO CUCAMONGA, CA 91730
CONTACT: MARK BERTONE
PHONE: 909-481-6322
MBERTONE@MADOLEINC.COM

REV.	DATE	COMMENTS

OWNER:
POMONA FELLOWSHIP
CHURCH OF THE BRETHREN
510 W. 875 W. ORANGE GROVE AVE.
POMONA, CA 91768
909-629-2546

ENGINEER OF RECORD:
MADOLE & ASSOCIATES, INC.
9302 PITTSBURGH AVE., SUITE 230
RANCHO CUCAMONGA, CA 91730
PHONE: 909-481-6322
FAX: 909-481-6323
JOB NO. 781-2874

DEVELOPER OF RECORD:
CRESTWOOD COMMUNITIES
510 W. CITRUS EDGE STREET
GLENDORA, CA 91740
626-914-1943

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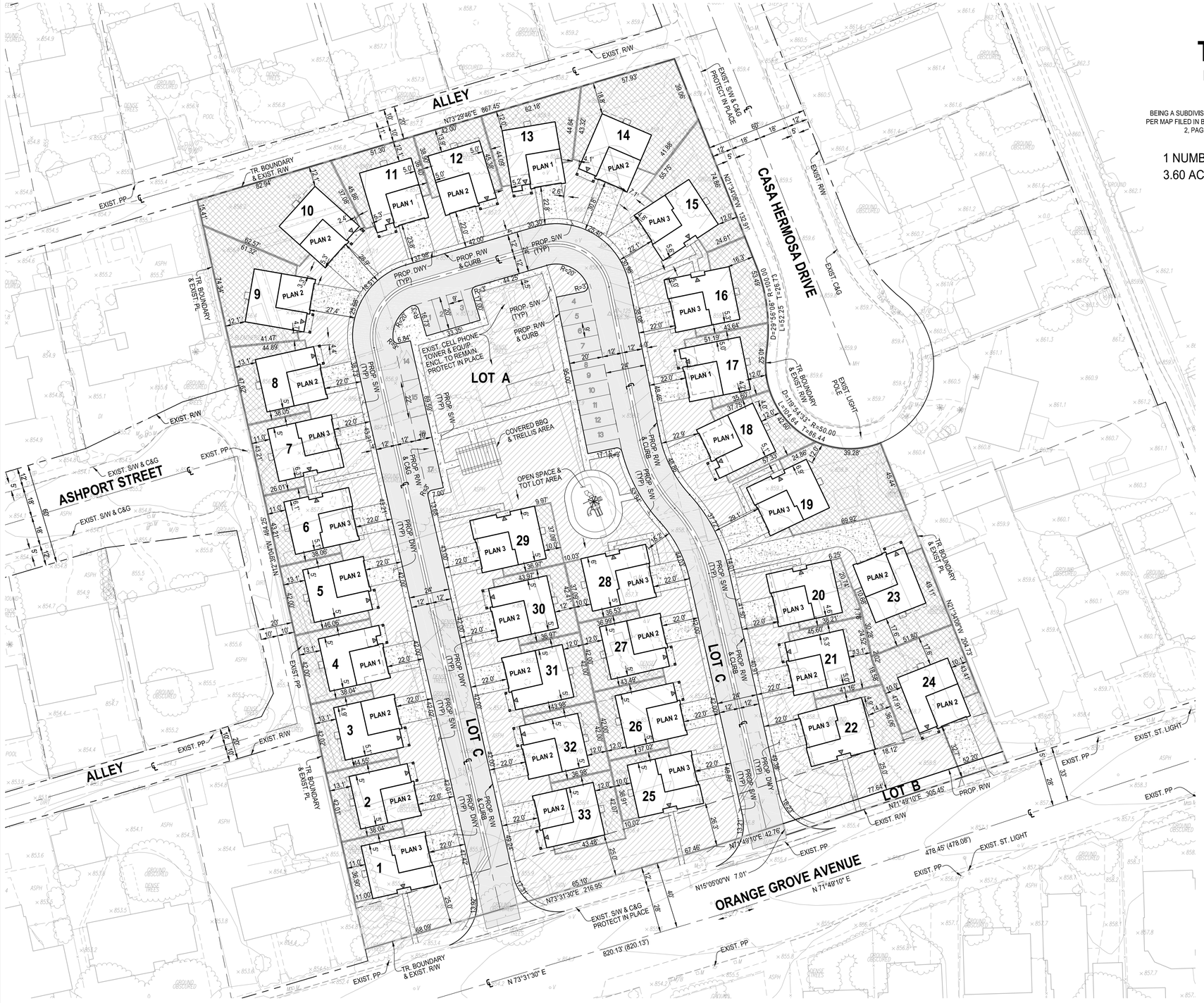
PROPERTY TITLE: 875 W. ORANGE GROVE AVENUE
SCALE: AS SHOWN
DATE: JUNE, 2020
DRAWN BY: TS
CHECKED BY: WLJ

TENTATIVE TRACT NO. 83141
TENTATIVE TRACT MAP

SHEET NO. 2 OF _

J.N. 781-2874 Tentative Tract Map



(FOR CONDOMINIUM PURPOSES)

TENTATIVE TRACT NO. 83141

IN THE CITY OF POMONA, COUNTY OF LOS ANGELES,
STATE OF CALIFORNIA

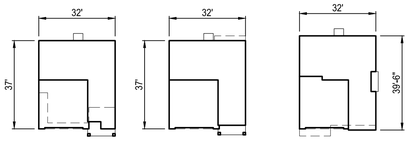
BEING A SUBDIVISION OF LOTS 32, 33, & 34 OF TRACT MAP 18030, IN THE CITY OF POMONA, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP FILED IN BOOK 457, PAGES 17 THROUGH 18, INCLUSIVE OF MAPS, AND A PORTION OF THE RANCHO SAN JOSE, AS PER MAP FILED IN BOOK 2, PAGES 292 THROUGH 293, INCLUSIVE OF PATENTS, BOTH IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

1 NUMBERED LOT & 3 LETTERED LOTS
3.60 ACRES GROSS

JULY, 2020

LEGEND:

C&G	CURB & GUTTER
EXIST.	EXISTING
PL	PROPERTY LINE
PP	POWER POLE
PROP.	PROPOSED
R/W	RIGHT OF WAY
ST.	STREET
S/W	SIDEWALK
TR.	TRACT
TYP.	TYPICAL
	AC PAVEMENT
	BACKYARD
	CONCRETE DRIVE & SIDEWALK
	FRONTYARD
	FRONT DOOR



PLAN 1
1,687 SF
(5 EA)

PLAN 2
1,813 SF
(17 EA)

PLAN 3
1,955 SF
(11 EA)

AVERAGE LOT SIZE = 3,597 SF

PROJECT INFORMATION :

OWNER:
GERALD A DAVIS
POMONA FELLOWSHIP CHURCH OF THE BRETHREN
875 W. ORANGE GROVE AVENUE
POMONA, CA 91768
909-629-2548

APPLICANT:
PATRICK J. DIAZ
CRESTWOOD COMMUNITIES
510 W. CITRUS EDGE STREET
GLENDORA, CA 91740
626-914-1943 EXT. 250
pdiaz@crestwoodcommunities.com

ADDRESS:
875 W. ORANGE GROVE AVENUE

SCALE: 1" = 30'

SCALE IN FEET
0 30 60 90

PROFESSIONAL LAND SURVEYOR
ANTHONY HARO
No. 7635
Exp: 12-31-2020
STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF:

ANTHONY HARO P.L.S. 7635

REV.	DATE	COMMENTS

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510 W. 875 W. ORANGE GROVE AVE.
POMONA, CA 91768
909-629-2548

ENGINEER OF RECORD:
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Engineering Communities for Life
9302 PITTSBURGH AVE., SUITE 230
RANCHO CUCAMONGA, CA 91730
PHONE: 909.481.6322
FAX: 909.481.6320
JOB NO. 781-2874

DEVELOPER OF RECORD:
CRESTWOOD COMMUNITIES
510 W. CITRUS EDGE STREET
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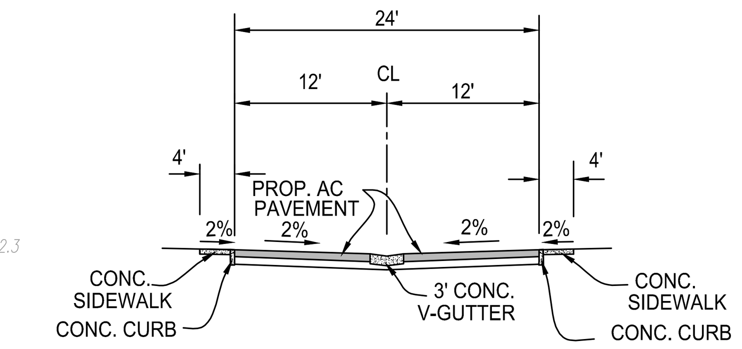
PROPERTY TITLE:
875 W. ORANGE GROVE AVENUE

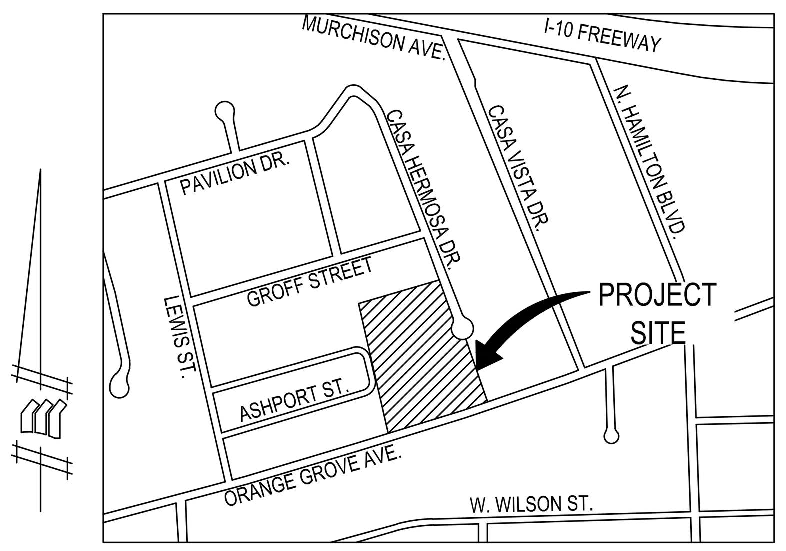
SCALE: AS SHOWN
DATE: JUNE, 2020
DRAWN BY: DM
CHECKED BY: WLI

TENTATIVE TRACT NO. 83141
PRELIMINARY SITE PLAN

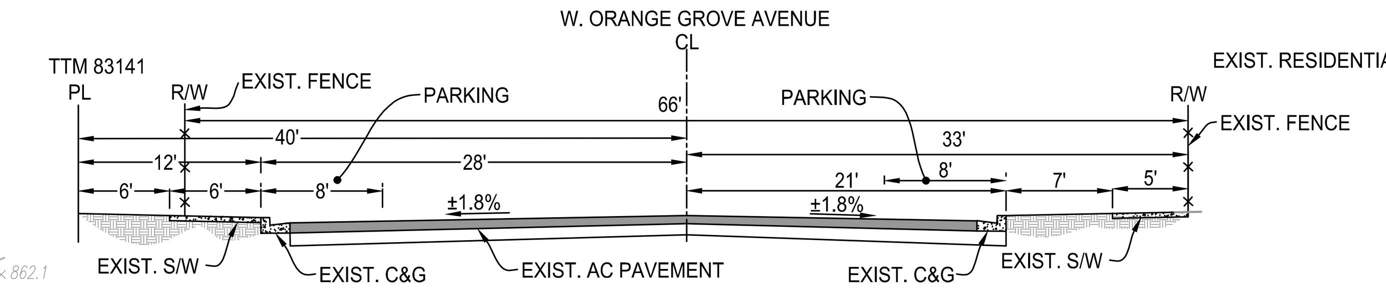
SHEET NO.
3 OF _



PRIVATE DRIVE
TYPICAL SECTION
NOT TO SCALE



VICINITY MAP
NOT TO SCALE



ORANGE GROVE AVE.
TYPICAL SECTION
SCALE: 1"=10'

LEGEND:

C&G	CURB & GUTTER
EXIST.	EXISTING
FH	FIRE HYDRANT
PL	PROPERTY LINE
PP	POWER POLE
PROP.	PROPOSED
R/W	RIGHT OF WAY
ST.	STREET
S/W	SIDEWALK
TR.	TRACT
TYP.	TYPICAL
	AC PAVEMENT
	CONCRETE SIDEWALK
℄	CENTER LINE
—x—	EXISTING FENCE
19	LOT NUMBER
PAD=58.5	PAD ELEVATION
— - —	RIGHT OF WAY
—S—	PROPOSED SEWER
—W—	PROPOSED WATER

LEGAL DECRIPTION:

BEING A SUBDIVISION OF LOTS 32, 33, & 34 OF TRACT MAP 18030, IN THE CITY OF POMONA, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP FILED IN BOOK 457, PAGES 17 THROUGH 18, INCLUSIVE OF MAPS, AND A PORTION OF THE RANCHO SAN JOSE, AS PER MAP FILED IN BOOK 2, PAGES 292 THROUGH 293, INCLUSIVE OF PATENTS, BOTH IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

EASEMENT NOTES:

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9 AN EASEMENT FOR PUBLIC UTILITIES RECORDED IN BOOK 457, PAGE 17 OF MAPS. (TO BE VACATED)

BASIS OF BEARINGS:

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BENCH MARK:

B.M. NO. 361 ELEV. 847.38'

L. AND T. ON CURB AT B.C.R. 55'± OF C/L OF LEWIS STREET AND 30'± NORTH OF C/L OF ORANGE GROVE AVENUE

APN:

8358-009-006; 8358-009-009; 8358-009-010

SCALE: 1" = 30'

SCALE IN FEET
0 30 60 90

PROJECT INFORMATION :

OWNER:

GERALD A DAVIS
POMONA FELLOWSHIP CHURCH OF THE BRETHREN
875 W. ORANGE GROVE AVENUE
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APPLICANT:

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ADDRESS:

875 W. ORANGE GROVE AVENUE

PROFESSIONAL LAND SURVEYOR ANTHONY HARO No. 7635 Exp: 12-31-2020 STATE OF CALIFORNIA

PREPARED UNDER THE SUPERVISION OF:

ANTHONY HARO P.L.S. 7635

REV.	DATE	COMMENTS

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PHONE: 909.481.6322
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DEVELOPER OF RECORD:
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PROPERTY TITLE:
875 W. ORANGE GROVE AVENUE

SCALE: AS SHOWN
DRAWN BY: DM
DATE: JUNE, 2020
CHECKED BY: WLI

TENTATIVE TRACT No. 83141
PRELIMINARY GRADING PLAN

SHEET NO. 4 OF _

PLANTING LEGEND

BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
TREES			
A. KOELREUTERIA BIPINNATA	CHINES FLAME TREE	15 GAL.	STD. TRUNK
B. LAGERSTROEMIA I. TUSCARORA	CRAPE MYRTLE	24" BOX	MULTI-TRUNK
C. MAGNOLIA G. 'LITTLE GEM'	LITTLE GEM MAGNOLIA	24" BOX	STD. TRUNK
D. PLATANUS A. 'COLUMBIA'	LONDON PLANE TREE	24" BOX	STD. TRUNK
E. PLATANUS RACEMOSA	WESTERN SYCAMORE	15 GAL.	MULTI-TRUNK

HOA MAINTAINED LANDSCAPE AREA

ARTIFICIAL TURF

COMMON LANDSCAPE AREAS

CASA HERMOSA DRIVE PARKWAY SHRUB and GROUND COVER AREAS

PRIVATELY MAINTAINED LANDSCAPE AREA

FRONT YARD AREAS MAINTAINED BY THE PRIVATE HOMEOWNER

REAR and SIDE YARD AREAS MAINTAINED BY THE PRIVATE HOMEOWNER

83141 - Pomona 33
Private open space

lot	width	length	area SF
1	11	37	535
2	12.5	42	827
3	13	42	834
4	13	42	837
5	13	42	838
6	11	43	700
7	11.5	43	702
8	13.5	47	955
9	20	74	1,818
10	22	82	2,599
11	12	51	1,029
12	14	42	866
13	12	62	1,338
14	19	57	2,751
15	12	74	1,669
16	12	53	1,117
17	11	40	843
18	12	42	922
19	43	45	2,503
20	7	34	472
21	13	42	851
22	14	38	736
23	17	51	1,334
24	17	51	1,480
25	10	38	501
26	12	42	786
27	12	42	789
28	10	43	507
29	10	38	507
30	12	42	788
31	12	42	786
32	12	42	785
33	11	38	570
		total	34,575

SCALE 1" = 30'

REGISTERED LANDSCAPE ARCHITECT
PATRICK J. DIAZ
No. LA 3880
Exp. 3/31/22
STATE OF CALIFORNIA

REVISION	DATE	COMMENTS
1	08.27.20	PER PLANG COMMENTS 09.14.20

OWNER:
Pomona Fellowship Church of the Brethren
875 W. Orange Grove Ave
Pomona, CA 91768
909-629-2548

ENGINEER OF RECORD
MADOLE & ASSOCIATES, INC.
9302 Pittsburgh Avenue, Suite 230
Rancho Cucamonga, CA 91730
909-481-6322

DEVELOPER OF RECORD
CRESTWOOD COMMUNITES
510 W. CITRUS EDGE STREET
GLENDORA, CA 91740
626-914-1943

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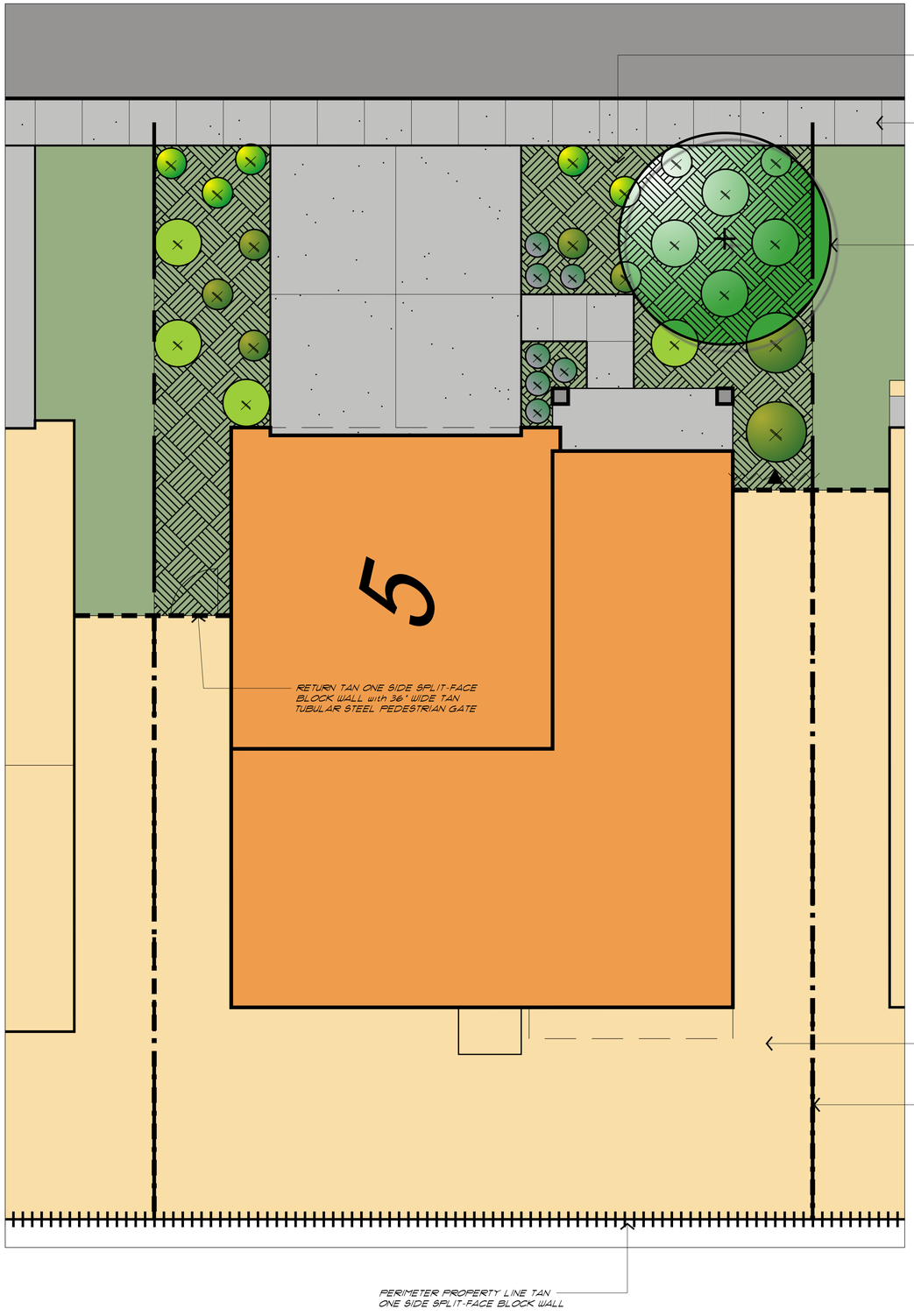
PROJECT TITLE: Tract 83141 - 875 W. Orange Grove Avenue
SCALE: -
DATE: 07/02/20
DRAWING TITLE:
SHEET #: L1

PRELIM LANDSCAPE PLAN



PLANTING LEGEND

BOTANICAL NAME	COMMON NAME	SIZES	WUCOLS
TREES 24" BOX			
C. MAGNOLIA G. 'LITTLE GEM'	LITTLE GEM MAGNOLIA	24" BOX	M
SHRUBS 1 & 5 GALLON			
1. ANIGOZANTHOS FLAVIDUS	KANGARO PAW	5 GAL	L
2. ARBUTUS UNEDO	STRAWBERRY TREE	5 GAL	L
3. BACCHARIS 'SPECIES'	COYOTE BRUSH	5 GAL	L
4. CALLESTEMON 'LITTLE JOHN'	DWARF BOTTLEBRUSH	5 GAL	L
5. CISTUS PURPUREUS	ORCHID ROCKROSE	5 GAL	L
6. DIANELLA 'REVOLUTA 'LITTLE REV.'	DIANELLA	5 GAL	M
7. ELAEGNUS PUNGENS	SILVERBERRY	5 GAL	L
8. HESPEROLEA PARVIFLORIA	RED YUCCA	5 GAL	L
9. LANTAN M. 'NEW GOLD'	YELLOW TRAILING LANTANA	5 GAL	L
10. LEUCOPHYLLUM FRUTESCENS	TEXAS SAGE	5 GAL	L
11. MYOPORUM P. 'FUTAH CREEK'	PROSTRATE MYOPORUM	1 GAL	L
12. ROSA CALIFORNICA	CALIFORNIA WILD ROSE	1 GAL	L
13. SALVIA GREGGII	AUTUMN SAGE 'RED'	5 GAL	L
14. SALVIA GUARANTITICA	ANISE-SCENTED SAGE	5 GAL	L
15. STIPA TENUISSIMA	MEXICAN FEATHER GRASS	5 GAL	L
16. VERBENA PERUVIANA	PINK VERBENA	5 GAL	L
17. WESTRINGIA FRUTICOSA	WESTRINGIA	5 GAL	L
18. MUHLENBERGIA RIGENS	DEER GRASS	5 GAL	L
VINES			
19. PARTHENOSISUS TRICUSPIDATA	BOSTON IVY	1 GAL.	L

SCALE 1" = 30'

REGISTERED LANDSCAPE ARCHITECT
PATRICK J. DIAZ
No. LA 3880
Exp. 3/31/22
STATE OF CALIFORNIA

REVISION	DATE	COMMENTS
1	-	-

DEVELOPER OF RECORD:
CRESTWOOD COMMUNITES
510 W. CITRUS EDGE STREET
GLENDORA, CA 91740
626-914-1943

OWNER:
Pomona Fellowship Church of the Brethren
875 W. Orange Grove Ave
Pomona, CA 91768
909-629-2548

ENGINEER OF RECORD:
MADOLE & ASSOCIATES, INC.
9302 Pittsburgh Avenue, Suite 230
Rancho Cucamonga, CA 91730
909-481-6322

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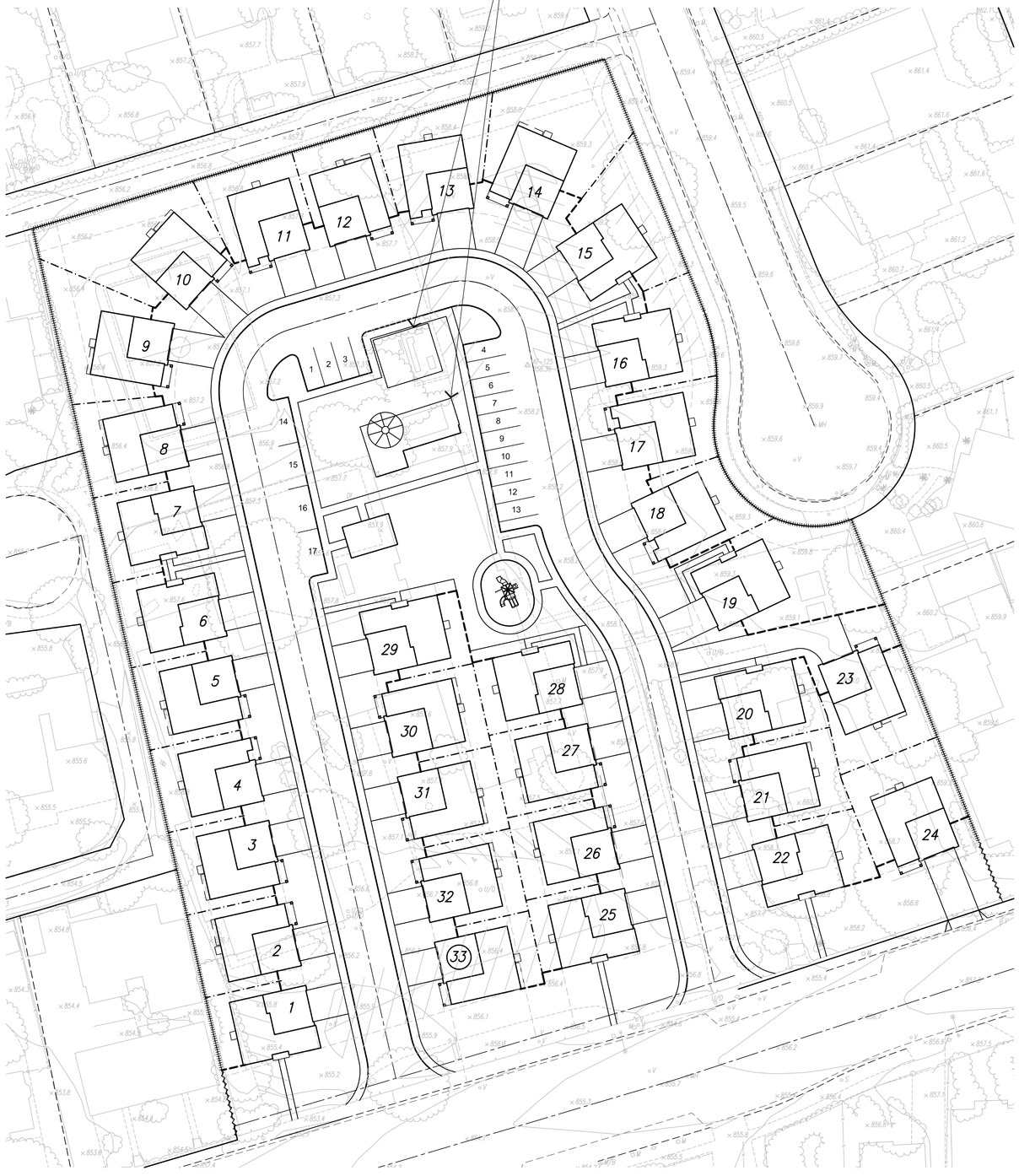
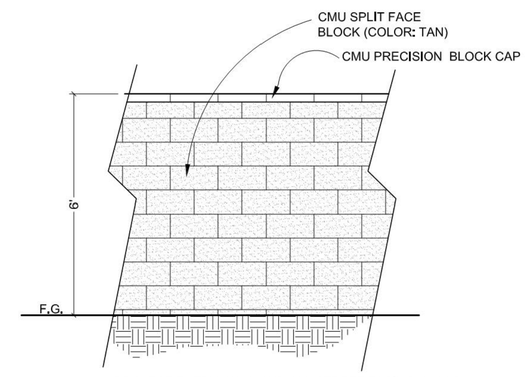
PROJECT TITLE: Tract 83141 - 875 W. Orange Grove Avenue
SCALE: -
DESIGNED BY: -
DRAWN BY: -
DATE: 07/02/20
DRAWING TITLE: **PRELIM LANDSCAPE ENLARGMENT PLAN**
SHEET # 6

EXISTING BLOCK WALLS AROUND THE CELL TOWER SHALL REMAIN and BE PAINTED TAN TO MATCH THE NEW PROPOSED MASONRY BLOCK WALLS



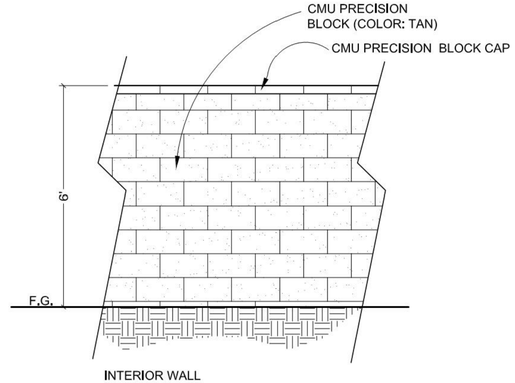
WALL LENGEND

LINE TYPE	WALL TYPE	COMMENTS	FINISH / COLOR
———	6'-0" TALL SPLIT-FACE ONE SIDE BLOCK WALL	RETURN WALLS WITH 3' PEDESTRIAN GATE	TAN
—·—·—	6'-0" TALL PRECISION BLOCK WALL	INTERIOR PROPERTY LINE WALL	TAN
———	6'-0" TALL SPLIT-FACE ONE SIDE BLOCK WALL	PERIMETER WALLS	TAN
~~	3'-6" TALL SPLIT-FACE TWO SIDES BLOCK WALL	PERIMETER WALLS	TAN



PROJECT ENTRY WALL AND ALL STREET FACING WALLS
TYPICAL MASONRY WALL ELEVATION

PERIMETER & RETURN LINE WALLS



INTERIOR WALL
TYPICAL MASONRY WALL ELEVATION

INTERIOR PROPERTY LINE WALLS

SCALE: 1" = 30'

REGISTERED LANDSCAPE ARCHITECT
PATRICK J. DIAZ
No. LA 3880
Exp. 3/31/22
STATE OF CALIFORNIA

REVISION	DATE	COMMENTS
1	08.27.20	PER PLANG COMMENTS 09.14.20
	-	-

OWNER:
Pomona Fellowship Church of the Brethren
875 W. Orange Grove Ave
Pomona, CA 91768
909-629-2548

ENGINEER OF RECORD:
MADOLE & ASSOCIATES, INC.
9302 Pittsburgh Avenue, Suite 230
Rancho Cucamonga, CA 91730
909-481-6322

DEVELOPER OF RECORD:
CRESTWOOD COMMUNITES
510 W. CITRUS EDGE STREET
GLENDORA, CA 91740
626-914-1943

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PROJECT TITLE:
Tract 83141 - 875 W. Orange Grove Avenue

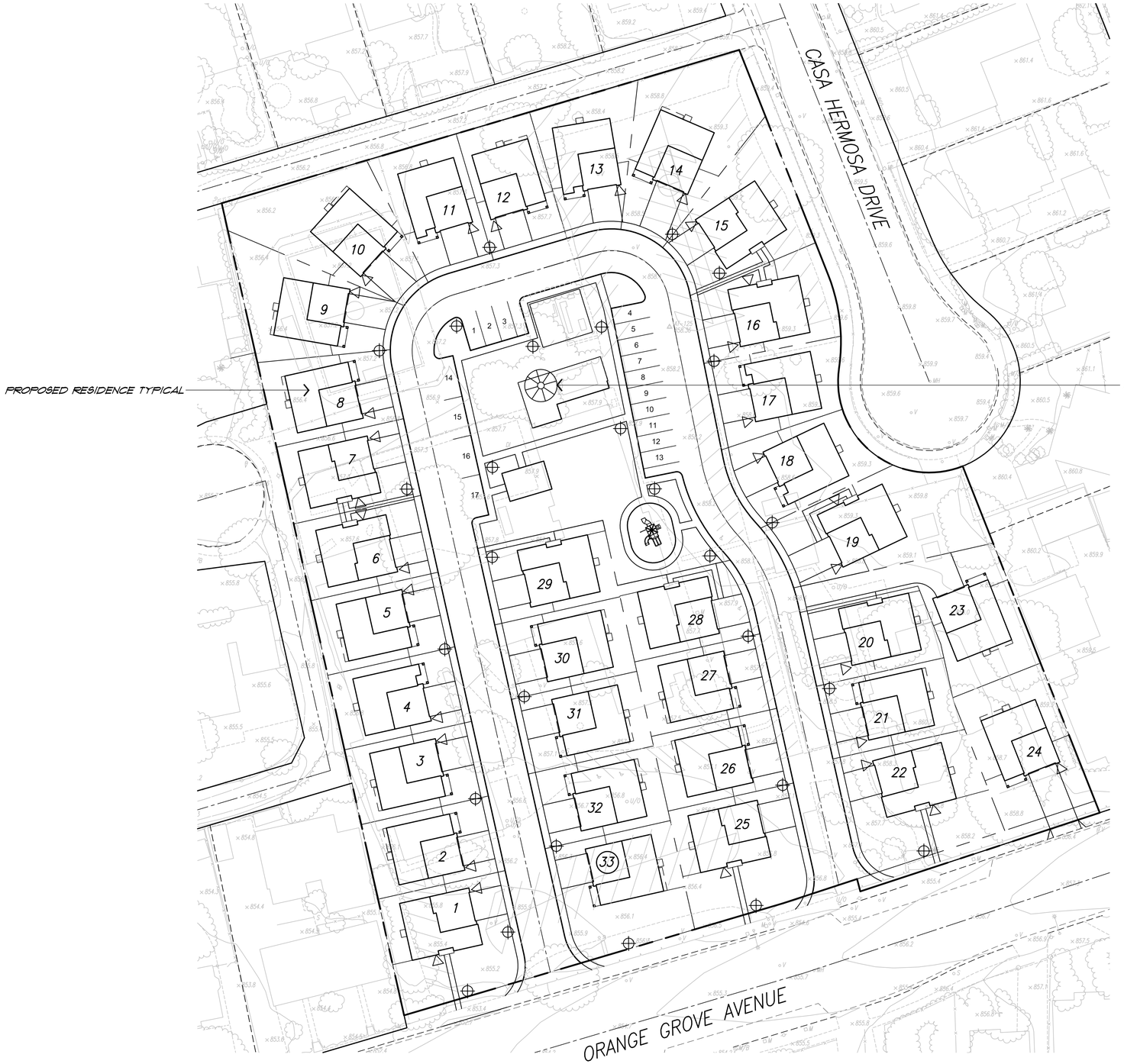
SCALE:

DATE: 07/02/20

DRAWING TITLE:
PRELIM FENCING PLAN

DESIGNED BY: -
DRAWN BY: -

SHEET
1



LIGHTING LEGEND

SYMBOL	DESCRIPTION
⊕	120V LED DECORATIVE LIGHT FIXTURE ON A 10' METAL POLE PAINTED BLACK LOCATED ALONG PEDESTRIAN WALKWAYS and SIDEWALKS AS INDICATED BY MAXIM LIGHTING CO. - DOVER LED MODEL NO. 55021CDBZ OR EQUAL
▽	120V LED DECORATIVE SCONCE LIGHT FIXTURE - EACH RESIDENCE SHALL RECEIVE (1) LIGHT FIXTURE MOUNTED ON SIDE OF THE GARAGE TO BE CONTROLLED BY A PHOTO-CELL AS INDICATED BY MAXIM LIGHTING COMPANY MODEL PER ARCHITECTURAL ELEVATIONS
	SPANISH — CARRIAGE HOUSE LED E26 - 56522MOOB
	CRAFTSMAN — BUNGALOW LED E26 - 656S4CDWSBZ
NOT SHOWN	120V LED DECORATIVE DOWN LIGHT FIXTURE TWO PER TRELLIS STRUCTURE MOUNTED ON EITHER SIDE

Dover LED | 55021CDBZ

POLE FIXTURE

Carriage House LED E26 | 56522MOOB

SPANISH

Bungalow LED E26 | 656S4CDWSBZ

CRAFTSMAN

SCALE: 1" = 30'

REGISTERED LANDSCAPE ARCHITECT
PATRICK J. DIAZ
No. LA 3880
Exp. 3/31/22
STATE OF CALIFORNIA

REVISION	DATE	COMMENTS
1	08.27.20	PER PLANG COMMENTS 09.14.20
	-	-

OWNER:
Pomona Fellowship Church of the Brethren
875 W. Orange Grove Ave
Pomona, CA 91768
909-629-2548

ENGINEER OF RECORD:
MADOLE & ASSOCIATES, INC.
9302 Pittsburgh Avenue, Suite 230
Rancho Cucamonga, CA 91730
909-481-6322

DEVELOPER OF RECORD:
CRESTWOOD COMMUNITES
510 W. CITRUS EDGE STREET
GLENDORA, CA 91740
626-914-1943

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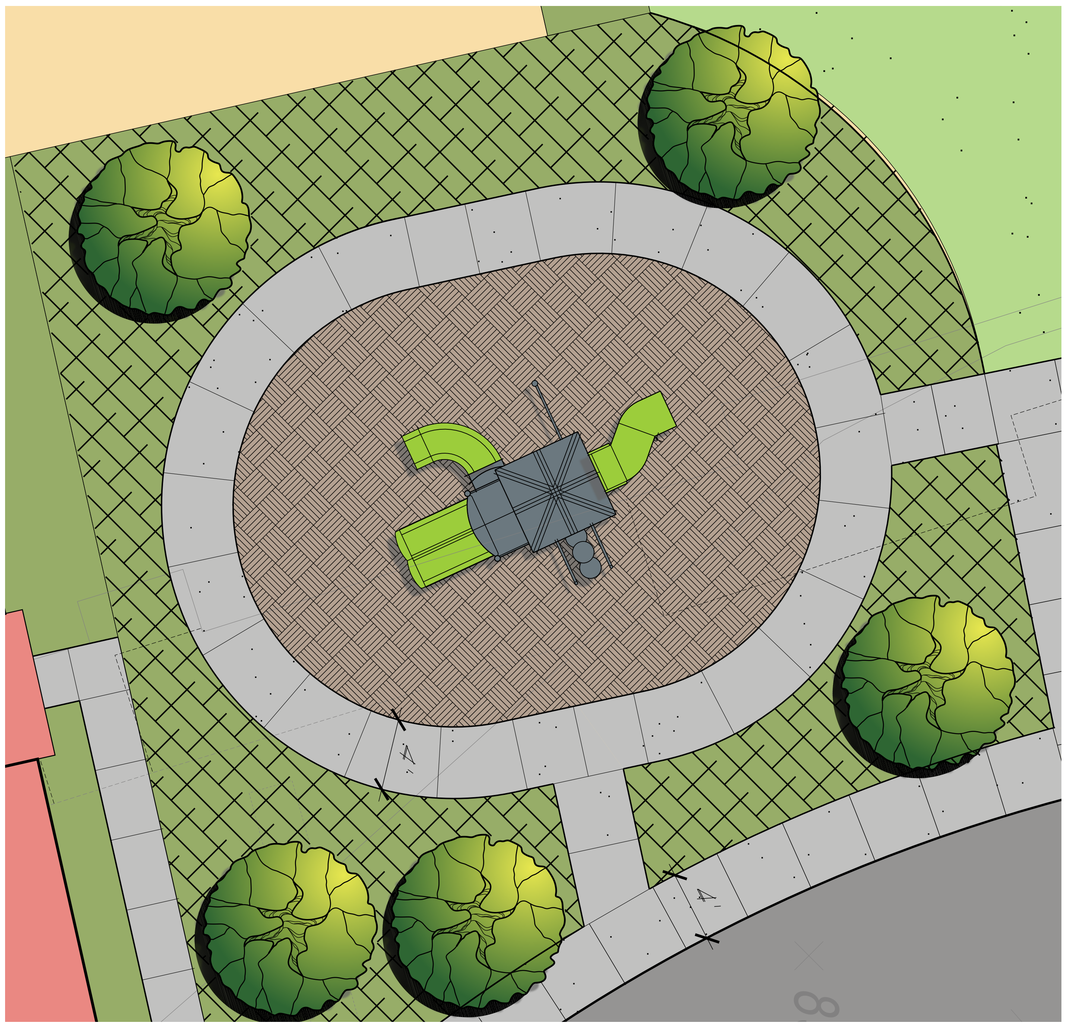
PROJECT TITLE: Tract 83141 - 875 W. Orange Grove Avenue
SCALE: -
DATE: 07/02/20
DESIGNED BY: -
DRAWN BY: -
DRAWING TITLE: LIGHTING PLAN
SHEET # 8



REVISION NO. 2

REGISTERED LANDSCAPE ARCHITECT
PATRICK J. TAZ
No. LA 3980
Exp. 3/31/22
STATE OF CALIFORNIA

SCALE 1/4" = 1'-0"

SHEET 9	PROJECT TITLE: Tract 83141 - 875 W. Orange Grove Avenue		
	SCALE: -	DESIGNED BY: -	
	DATE: 07/02/20	DRAWN BY: -	
	DRAWING TITLE: ACCESSORY STRUCTURE PLAN		

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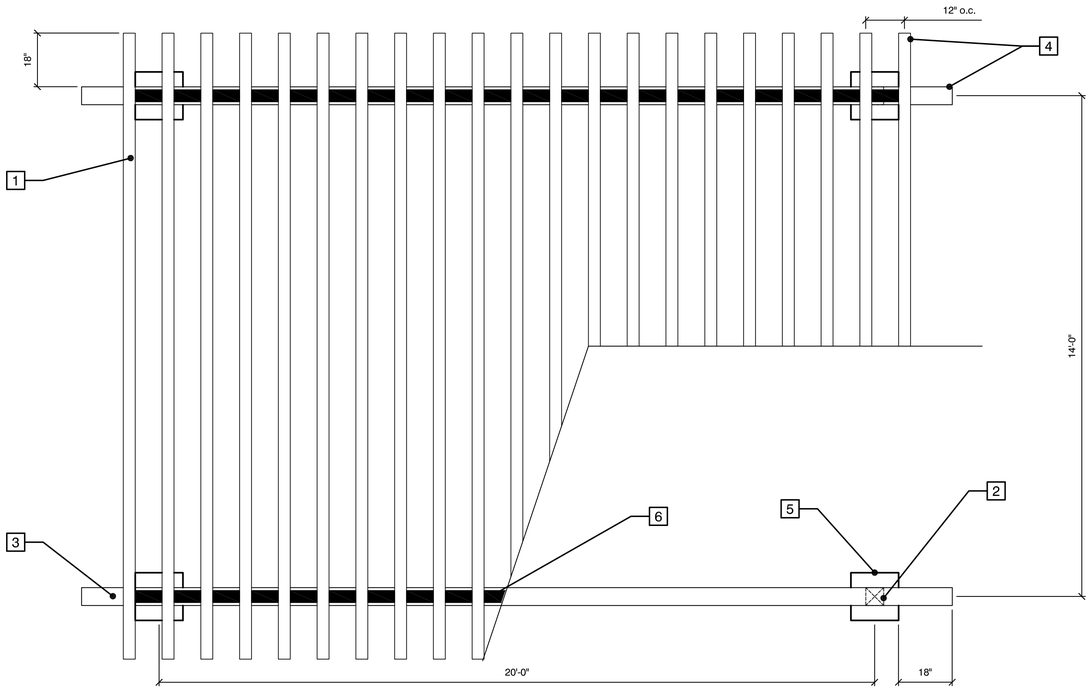
DEVELOPER OF RECORD:
CRESTWOOD COMMUNITES
510 W. CITRUS EDGE STREET
GLENDORA, CA 91740
626-914-1943

ENGINEER OF RECORD:
MADOLE & ASSOCIATES, INC.
9302 Pittsburgh Avenue, Suite 230
Rancho Cucamonga, CA 91730
909-481-6322

OWNER:
Pomona Fellowship Church of the Brethren
875 W. Orange Grove Ave
Pomona, CA 91768
909-629-2548

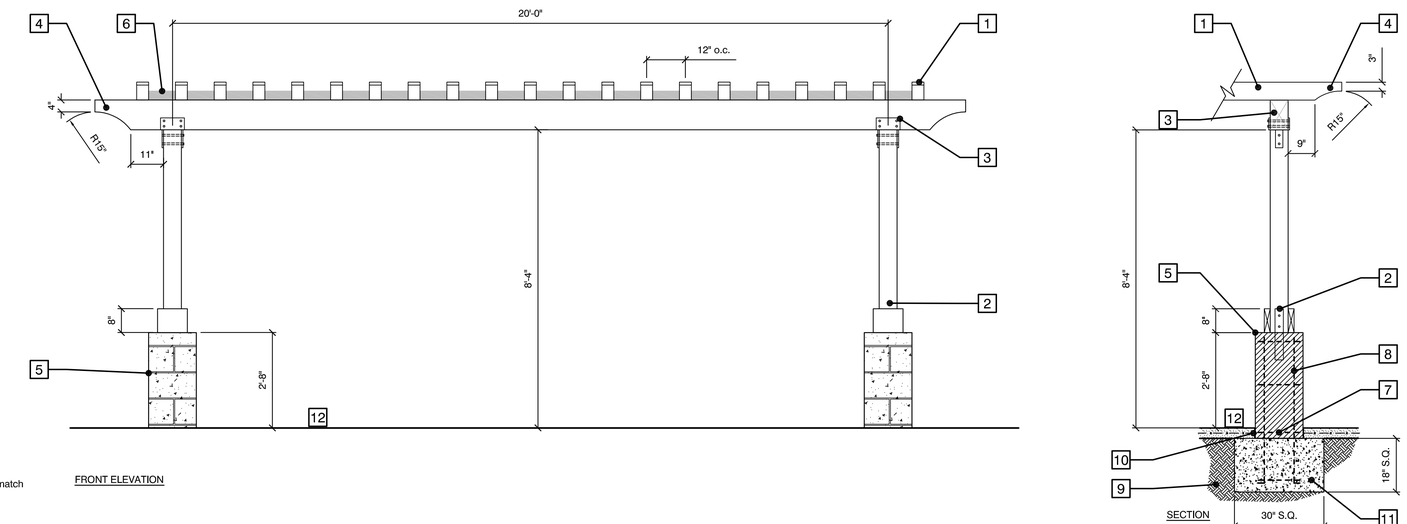
REVISION	DATE	COMMENTS
1	08.27.20	PER PLAN'G COMMENTS 09.14.20
	-	-



1. 4" x 6" D.F. wood trellis members on end @ 12" o.c.
2. 6" x 6" D.F. support post, set in column block and attached with Simpson Strong Tie Column Base-CB66
3. 6" x 10" D.F. support beams attached w/ Simpson Strong Tie Column Post-CC66 with 2-5/8" Ø nuts, bolts and washers
4. 15" radius chamfer all ends
5. 16x8x16 CMU 'Tan' split face-block column w/ 2x8 wood block to cover tie
6. 3" x 4" D.F. brace block between each trellis member

* all wood members shall be pre-painted prior to installation. paint and color to match building. contractor shall apply 'touch-up' application as needed after installation.

1 TRELLIS STRUCTURE-PLAN VIEW
SCALE: 1/2" = 1'-0"



1. 4" x 6" D.F. wood trellis members on end @ 12" o.c.
2. 6" x 6" D.F. support post, set in column block and attached with Simpson Strong Tie Column Base-CB66
3. 6" x 10" D.F. support beams attached w/ Simpson Strong Tie Column Post-CC66 with 2-5/8" Ø nuts, bolts and washers
4. 15" radius chamfer all ends
5. 16x8x16 CMU 'Tan' split face-block column w/ 2x8 wood block to cover tie
6. 3" x 4" D.F. brace block between each trellis member
7. horizontal #4 rebar at 16" o.c.
8. vertical #4 rebar at four corners
9. 90% compacted subgrade
10. expansion joint felt
11. concrete footing
12. hardscape surface (see plan)

* all wood members shall be pre-painted prior to installation. paint and color to match building. contractor shall apply 'touch-up' application as needed after installation.

2 TRELLIS STRUCTURE - ELEVATION AND SECTION
SCALE: 1/2" = 1'-0"

REGISTERED LANDSCAPE ARCHITECT
PATRICK J. DUKE
No. LA 3880
Exp. 3/31/22
STATE OF CALIFORNIA

REVISION	DATE	COMMENTS
1	08.27.20	PER PLAN'G COMMENTS 09.14.20
	-	-

OWNER:
Pomona Fellowship Church of the Brethren
875 W. Orange Grove Ave
Pomona, CA 91768
909-629-2548

ENGINEER OF RECORD:
MADOLE & ASSOCIATES, INC.
9302 Pittsburgh Avenue, Suite 230
Rancho Cucamonga, CA 91730
909-481-6322

DEVELOPER OF RECORD:
CRESTWOOD COMMUNITES
510 W. CITRUS EDGE STREET
GLENDORA, CA 91740
626-914-1943

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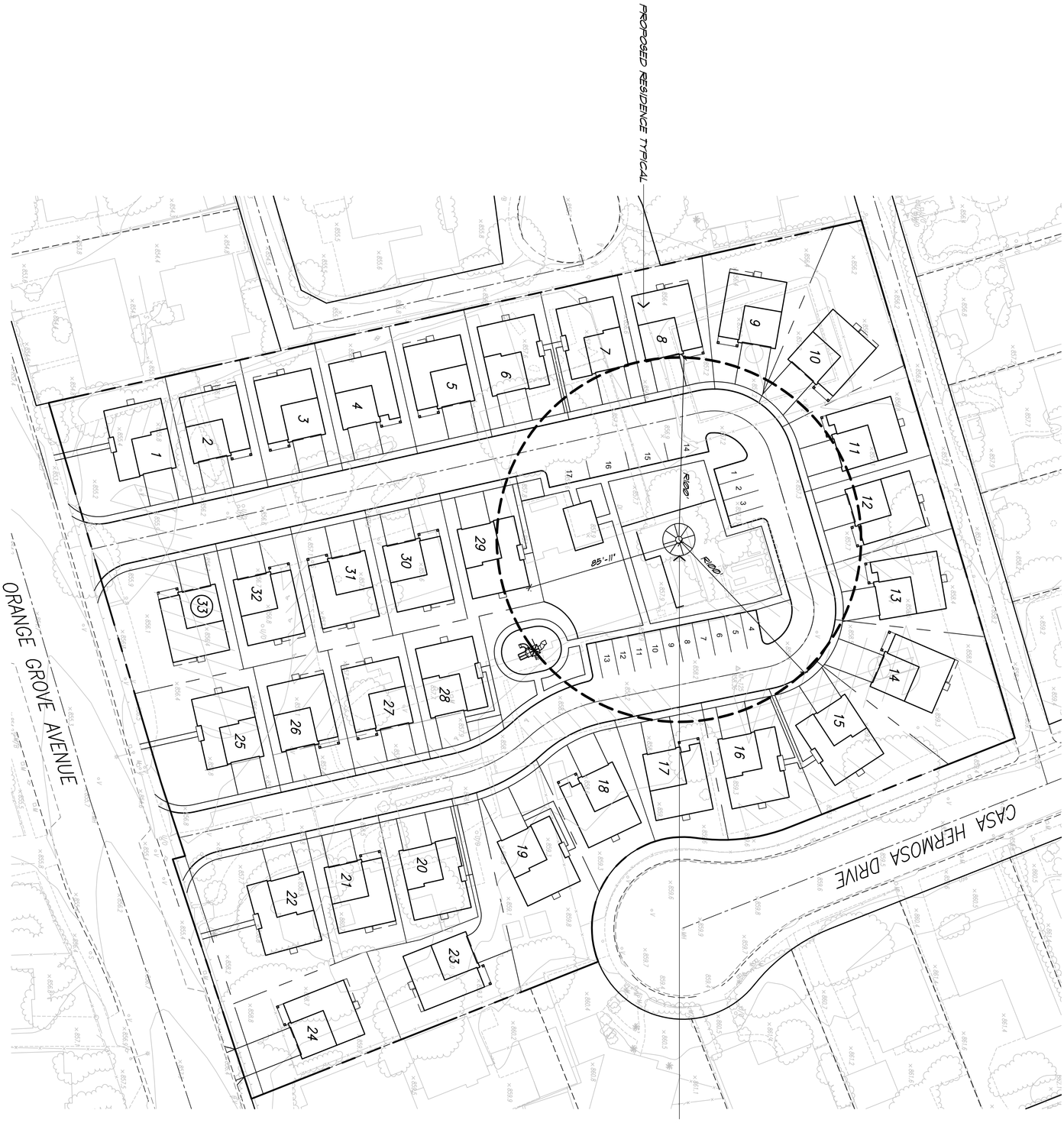
PROJECT TITLE: Tract 83141 - 875 W. Orange Grove Avenue
SCALE: -
DATE: 07/02/20
DRAWING TITLE: OVERHEAD SHADE TRELLIS
DESIGNED BY:
DRAWN BY: -
SHEET 10



REGISTERED LANDSCAPE ARCHITECT
PATRICK D. DIAZ
No. LA 3880
Exp. 3/31/22
STATE OF CALIFORNIA

SCALE: 1" = 30'

SHEET: 1 of 1

PROJECT TITLE: Tract 83141 - 875 W. Orange Grove Avenue

SCALE: -

DESIGNED BY: -

DATE: 07/02/20

DRAWN BY: -

DRAWING TITLE: CELL TOWER RADIUS

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DEVELOPER OF RECORD:
CRESTWOOD COMMUNITES
510 W. CITRUS EDGE STREET
GLENDORA, CA 91740
626-914-1943

ENGINEER OF RECORD:
MADOLE & ASSOCIATES, INC.
9302 Pittsburgh Avenue, Suite 230
Rancho Cucamonga, CA 91730
909-481-6322

OWNER:
Pomona Fellowship Church of the Brethren
875 W. Orange Grove Ave
Pomona, CA 91768
909-629-2548

REVISION	DATE	COMMENTS
1	08.27.20	PER PLAN'G COMMENTS 09.14.20
	-	-

83141 - Pomona 33
Driveway Summary Sheet

lot	width	length
1	16'	18'
2	16'	18'
3	16'	18'
4	16'	18'
5	16'	18'
6	16'	18'
7	16'	18'
8	16'	18'
9	16'	24'-9"
10	16'	24'-4"
11	16'	19'-8"
12	16'	18'
13	16'	19'
14	16'	27'
15	16'	18'3"
16	16'	18'
17	16'	18'
18	16'	20'
19	16'	25'
20	16'	18'
21	16'	18'
22	16'	18'
23	16'	83'
24	16'	33'
25	16'	18'
26	16'	18'
27	16'	18'
28	16'	18'
29	16'	18'
30	16'	18'
31	16'	18'
32	16'	18'
33	16'	18'

PROPOSED NATURAL GRAY CONCRETE DRIVEWAY MINIMUM 18'-0" IN LENGTH TO ACCOMMODATE 2 QUEST PARKING - TYPICAL

SCALE: 1" = 20'

REGISTERED LANDSCAPE ARCHITECT
PATRICK J. DIAZ
No. LA 3880
Exp. 3/31/22
STATE OF CALIFORNIA

REVISION	DATE	COMMENTS
1	08.27.20	PER PLANG COMMENTS 09.14.20

OWNER:
Pomona Fellowship Church of the Brethren
875 W. Orange Grove Ave
Pomona, CA 91768
909-629-2548

ENGINEER OF RECORD:
MADOLE & ASSOCIATES, INC.
9302 Pittsburgh Avenue, Suite 230
Rancho Cucamonga, CA 91730
909-481-6322

DEVELOPER OF RECORD:
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510 W. CITRUS EDGE STREET
GLENDORA, CA 91740
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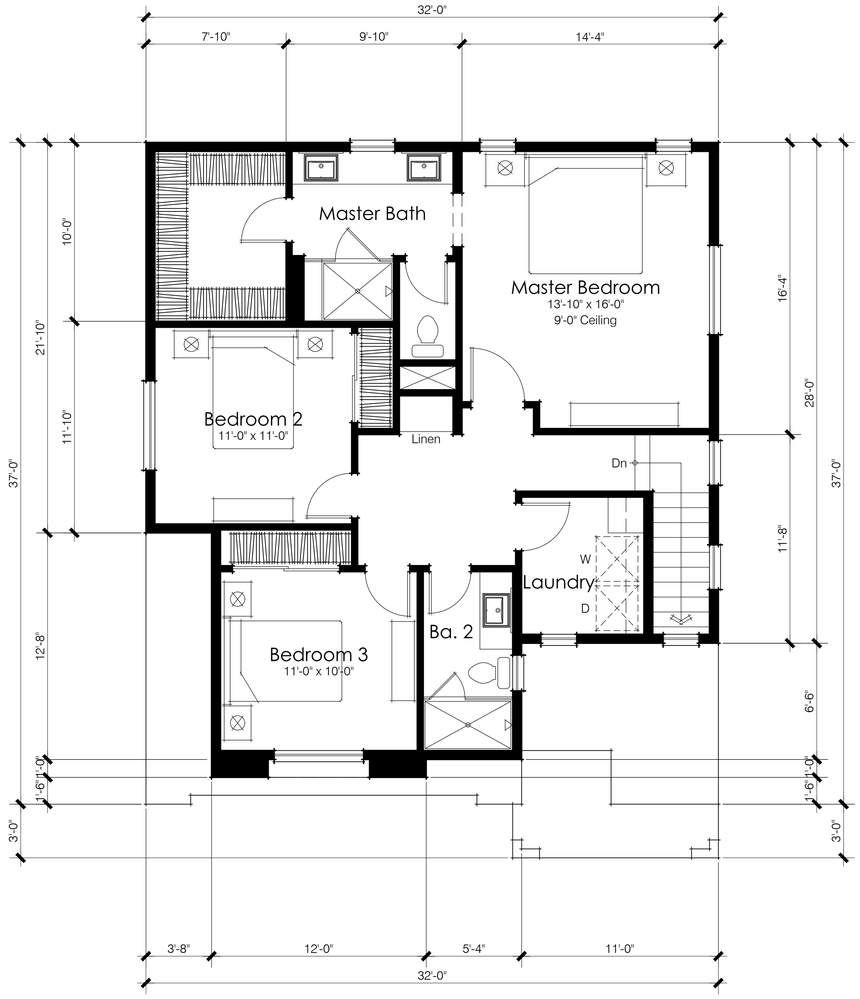
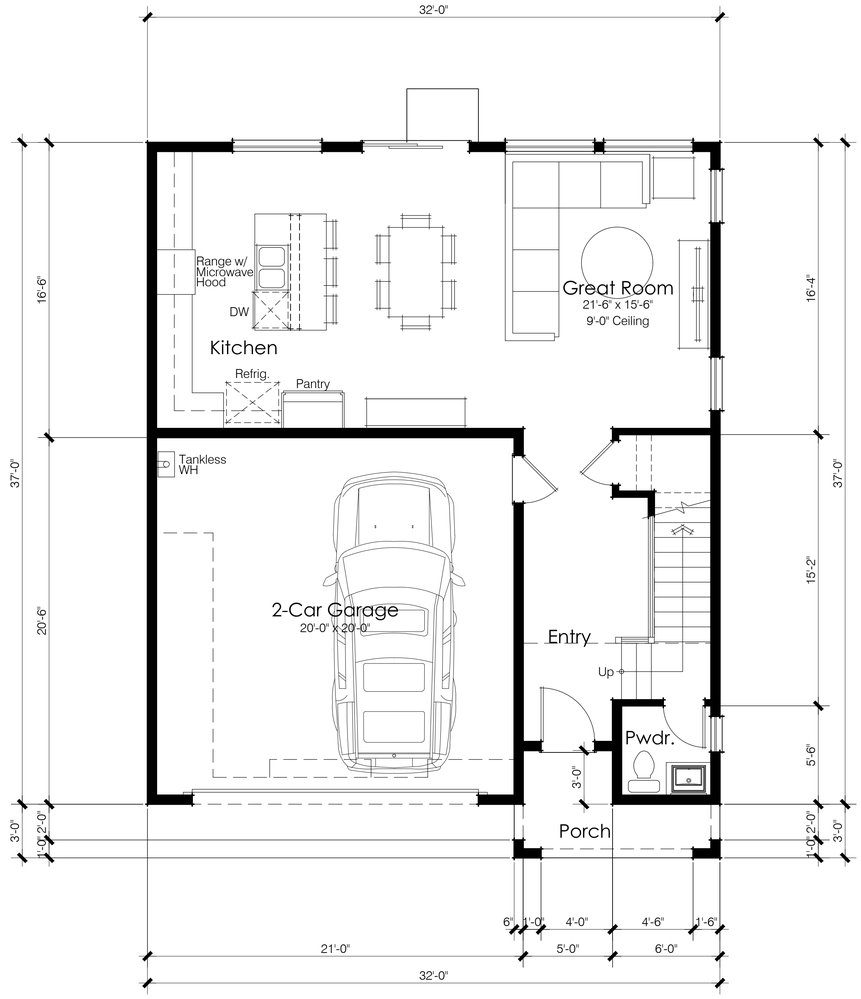
PROJECT TITLE: Tract 83141 - 875 W. Orange Grove Avenue
SCALE:
DATE: 07/02/20
DESIGNED BY: -
DRAWN BY: -
DRAWING TITLE:

DRIVEWAY DIMENSION PLAN

SHEET 12





Second Floor Plan

Occupancy Group	R-3 / U
Type Of Construction	VB
Stories	2
Fire Sprinklers	Yes - NFPA 13D

First Floor Plan

First Floor	747 sq. ft.
Second Floor	940 sq. ft.
Total:	1,687 sq. ft.
Garage	422 sq. ft.

Mark Gross & Associates, Inc.
8881 Research Drive, Irvine, California 92618
(949) 387-3800 Fax (949) 387-7800

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CrestWood COMMUNITIES

Pomona 34

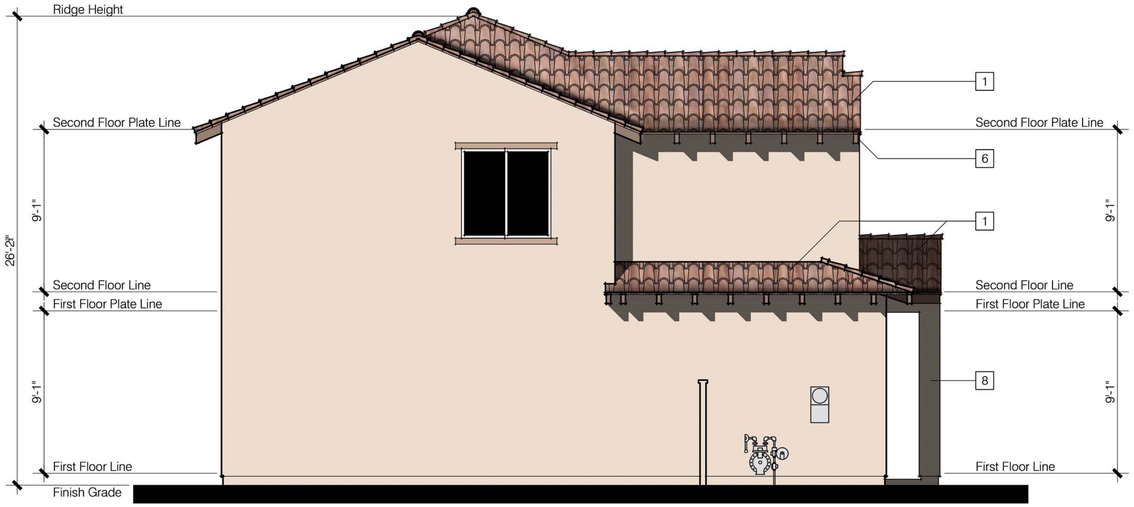
Title
Plan 1
Conceptual
Floor Plan

Date
January 20, 2020
Project Number
4437
Scale
1/4" = 1'-0"
Revision

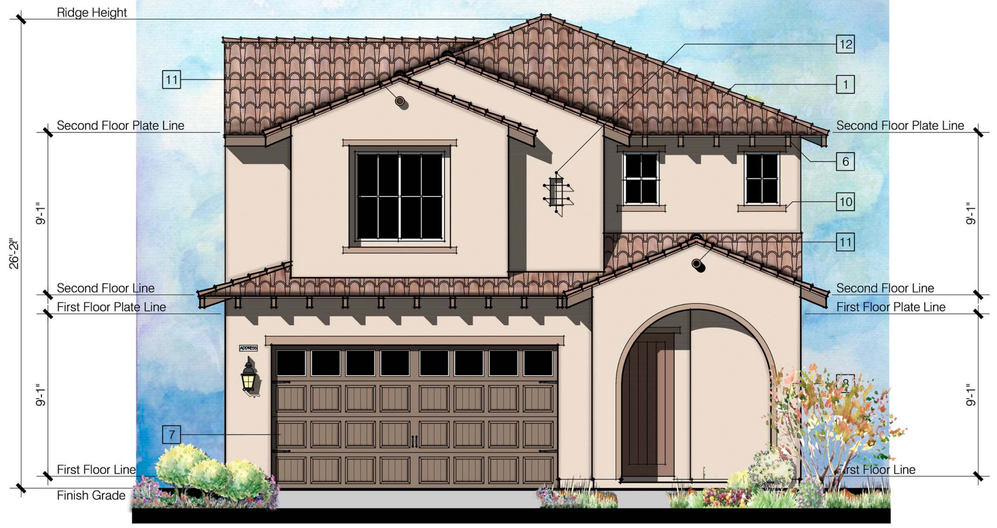
Sheet No.
A-1

Right Elevation

Rear Elevation



Left Elevation



Front Elevation

Scheme 1

Color & Material Boards

See sheet A-13 for the Exterior Color and Material Palette.

Exterior Elevation Material Legend

Key	Material
1	Concrete 'S' Roof Tile
2	5 : 12 Roof Pitch
3	Flush Rakes
4	Wood Fascias
5	18" Eaves
6	3x6 Wood Rafter Tails At 24" o.c.
7	Metal Sectional Garage Door With Optional Glass Top Panels
8	Stucco Finish
9	Multi-Paned Windows
10	Foam Door & Window Trim With Stucco Over - On Stucco Walls
11	EPS Foam Pipe Vent Cover
12	Wrought Iron Detail Over The Stucco Reccess

Mark Gross & Associates, Inc.
8881 Research Drive, Irvine, California 92618
(949) 387-3800 Fax (949) 387-7800

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CrestWood COMMUNITIES

Pomona 34

Title
Plan 1
Conceptual
Elevation 'A'
Spanish

Date
January 20, 2020

Project Number
4437

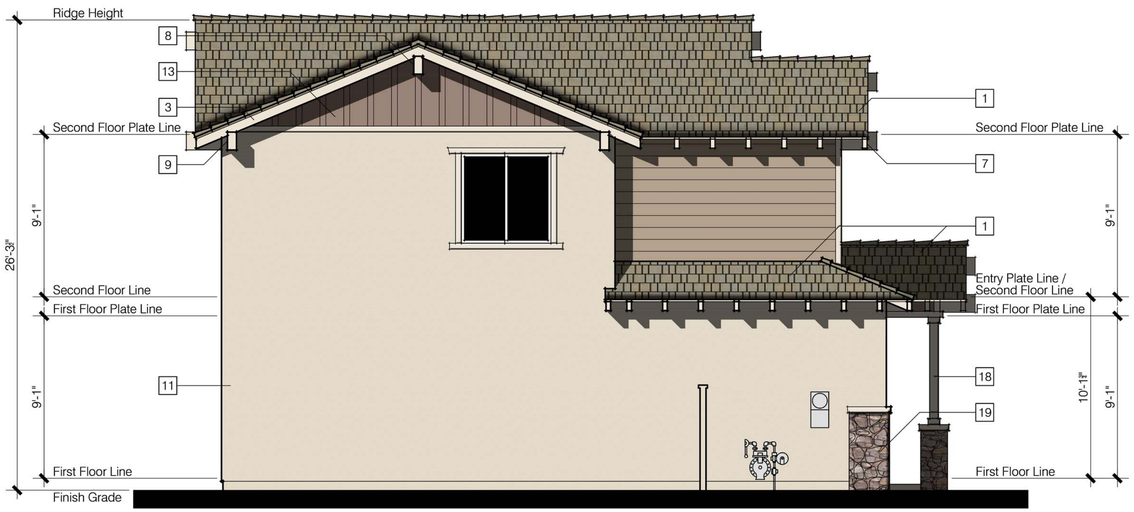
Scale
1/4" = 1'-0"

Revision
9-2-2020

Sheet No.
A-2

Right Elevation

Rear Elevation



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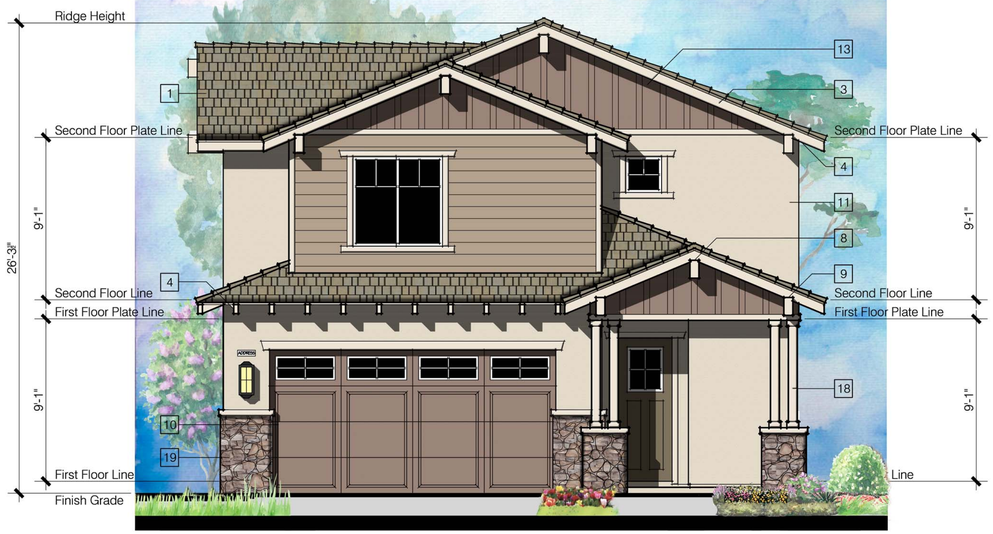

Front Elevation

Scheme 4

Color & Material Boards

See sheet A-13 for the Exterior Color and Material Palette.

Exterior Elevation Material Legend

Key	Material
1	Concrete 'Flat' Roof Tile
2	5 : 12 Roof Pitch
3	Wood Barges
4	18" Rakes
5	Wood Fascias
6	18" Eaves
7	3x6 Wood Rafter Tails At 24" o.c.
8	6x12 Wood False Ridge Beams
9	6x12 Wood Outlookers
10	Metal Sectional Garage Door With Optional Glass Top Panels
11	Stucco Finish
12	Fiber Cement Horizontal Lap Siding
13	Fiber Cement Board & Batt Siding At Gable Ends
14	Multi-Paned Windows
15	Foam Door & Window Trim With Stucco Over - On Stucco Walls
16	Wood Door & Window Trim - On Siding Walls
17	Wood Framed Potshelves
18	Wood Posts On Synthetic Stone Veneer Bases At The Entry
19	Synthetic Stone Veneer With A Pre-Cast Concrete Cap Grouted Finish Around Each Stone And Stone To Be Taken To Grade Below The Weepscreed.

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CrestWood COMMUNITIES

Pomona 34

Title
Plan 1
Conceptual
Elevation 'B'
Craftsman

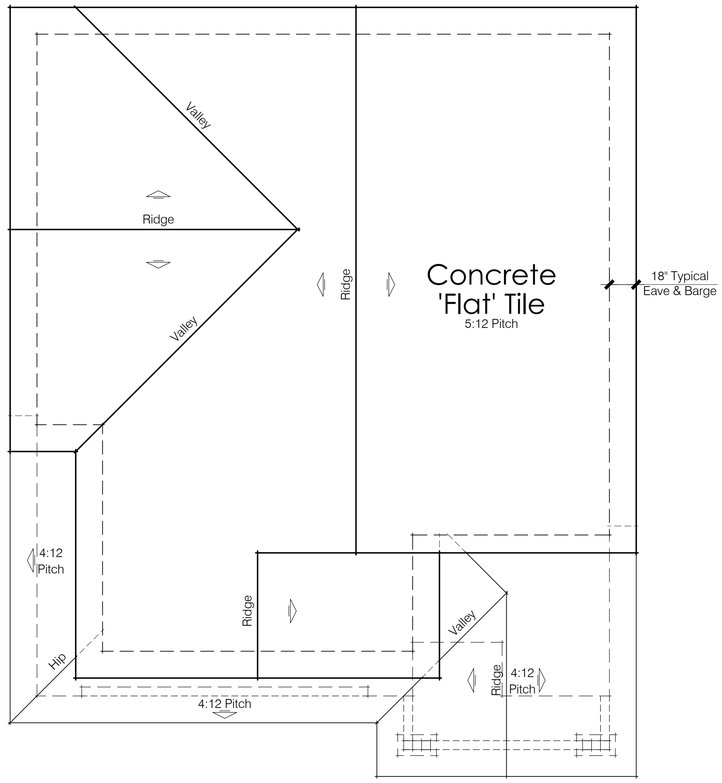
Date
January 20, 2020

Project Number
4437

Scale
1/4" = 1'-0"

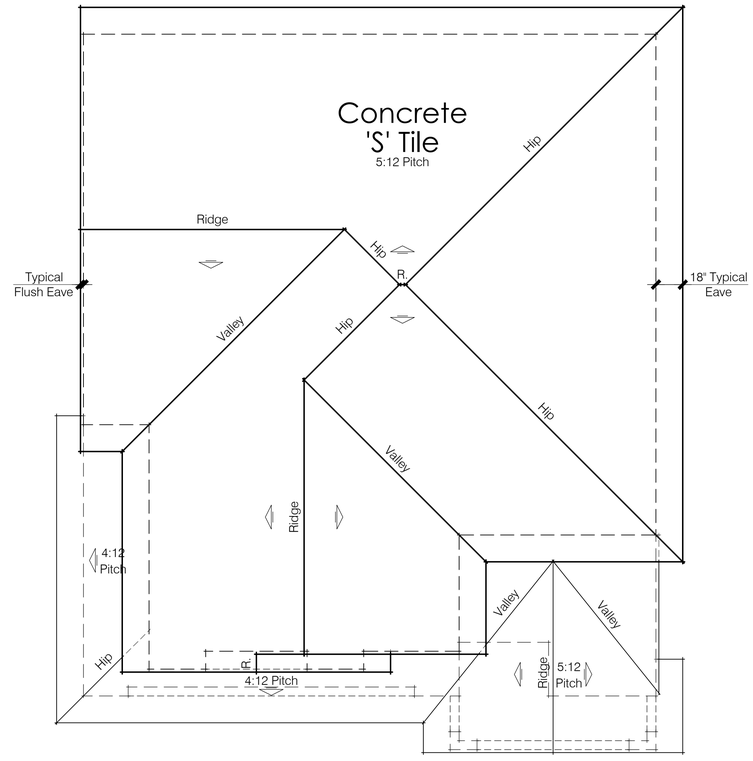
Revision
9-2-2020

Sheet No.
A-3



Roof Plan 'B'

SCALE: 1/4"=1'-0"



Roof Plan 'A'

SCALE: 1/4"=1'-0"

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CrestWood COMMUNITIES
Pomona 34

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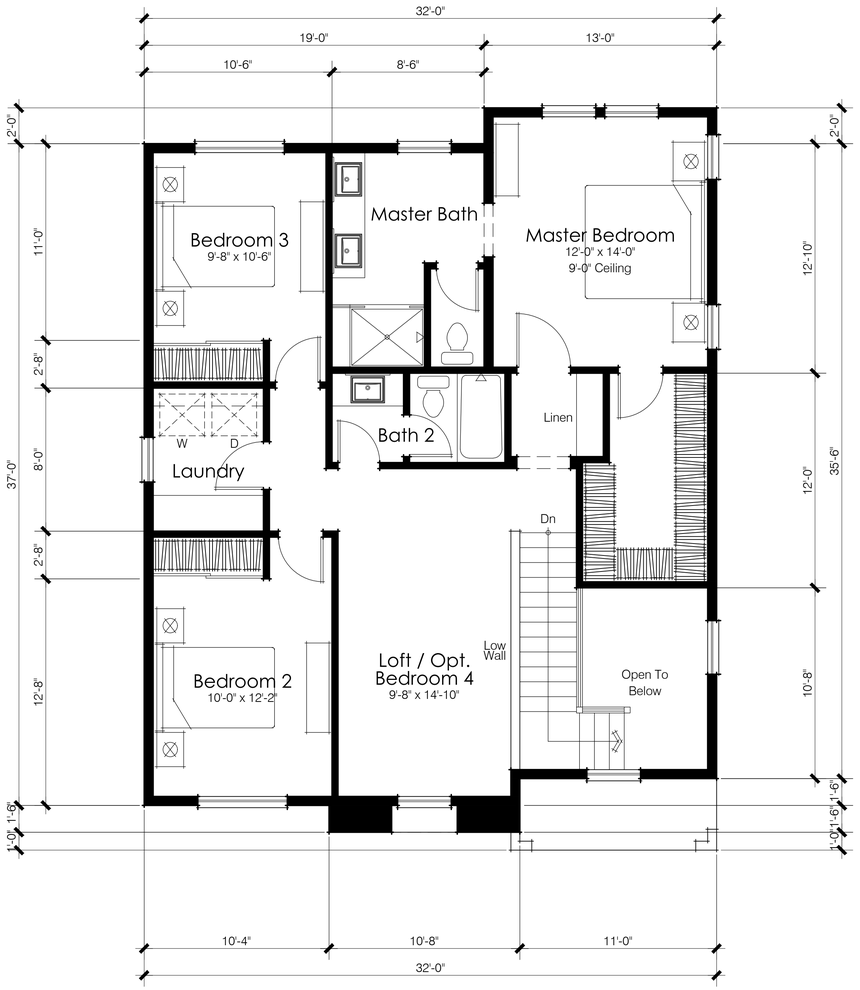
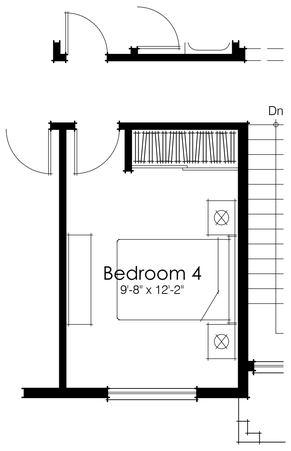
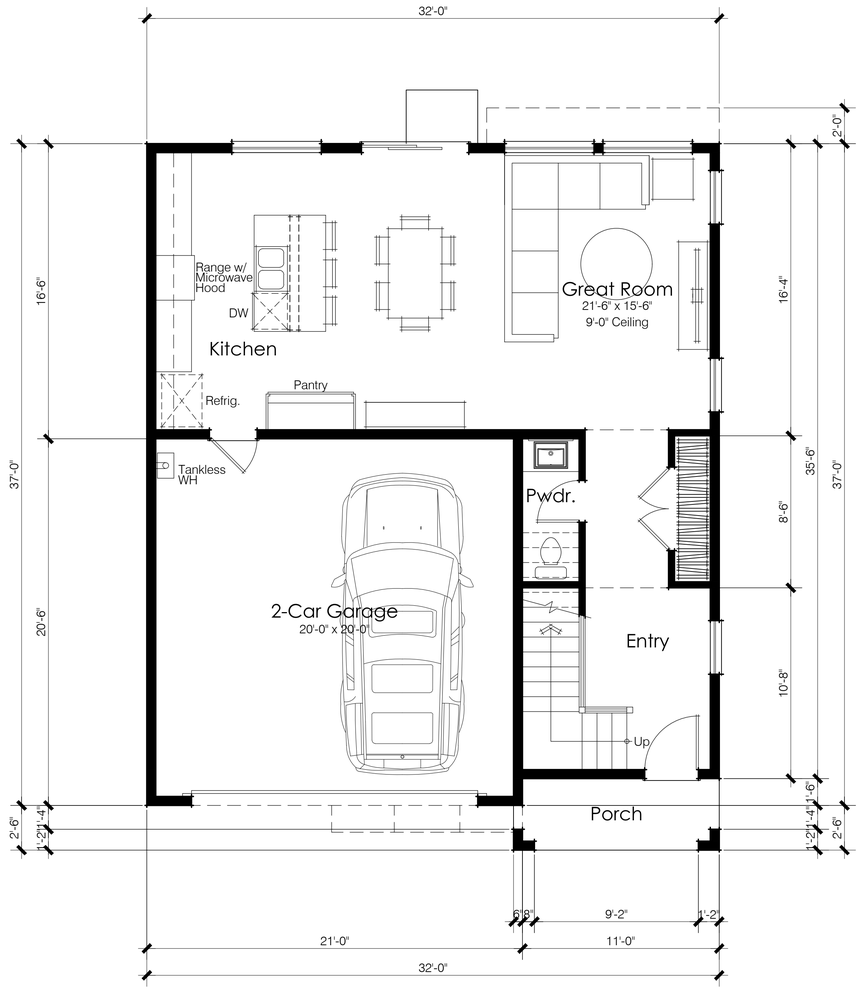
Conceptual
Roof Plans

Date
January 20, 2020
Project Number
4437
Scale
1/4" = 1'-0"
Revision
9-2-2020

Sheet No.
A-4







Second Floor Plan

Occupancy Group	R-3 / U
Type Of Construction	VB
Stories	2
Fire Sprinklers	Yes - NFPA 13D

First Floor Plan

First Floor	747 sq. ft.
Second Floor	1,066 sq. ft.
Total:	1,813 sq. ft.
Garage	420 sq. ft.

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Pomona 34

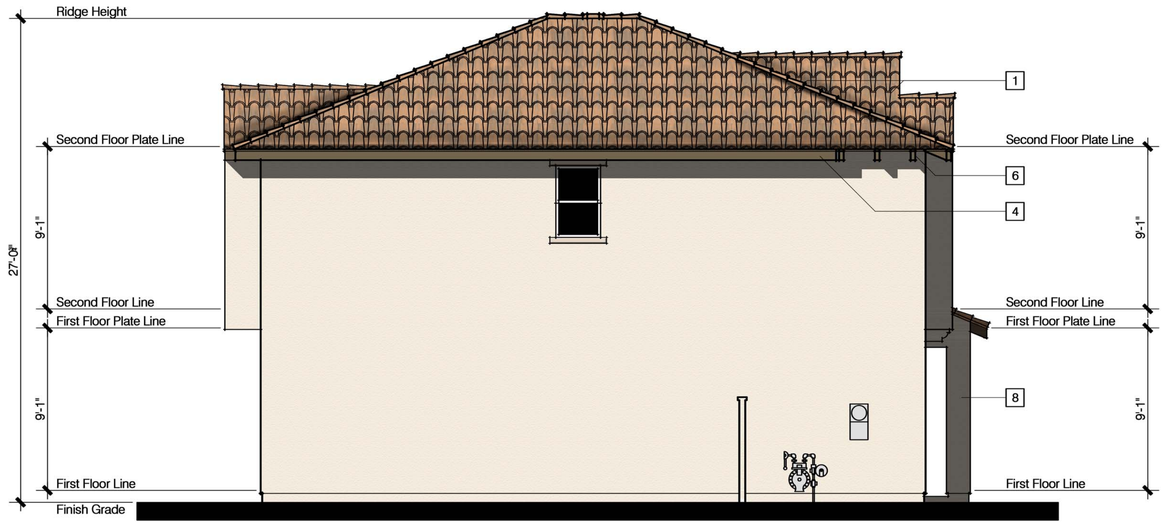
Title
Plan 2
Conceptual
Floor Plan

Date
January 20, 2020
Project Number
4437
Scale
1/4" = 1'-0"
Revision
9-2-2020

Sheet No.
A-5

Right Elevation

Rear Elevation



Left Elevation

Front Elevation

Scheme 2

Color & Material Boards

See sheet A-13 for the Exterior Color and Material Palette.

Exterior Elevation Material Legend

Key	Material
1	Concrete 'S' Roof Tile
2	5 : 12 Roof Pitch
3	Flush Rakes
4	Wood Fascias
5	12" Eaves
6	3x6 Wood Rafter Tails At 24" o.c.
7	Metal Sectional Garage Door With Optional Glass Top Panels
8	Stucco Finish
9	Multi-Paned Windows
10	Foam Door & Window Trim With Stucco Over - On Stucco Walls
11	EPS Foam Pipe Vent Cover
12	EPS Foam Shutters
13	Stucco Over Foam Corbels

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Pomona 34

Title
Plan 2
Conceptual
Elevation 'A'
Spanish

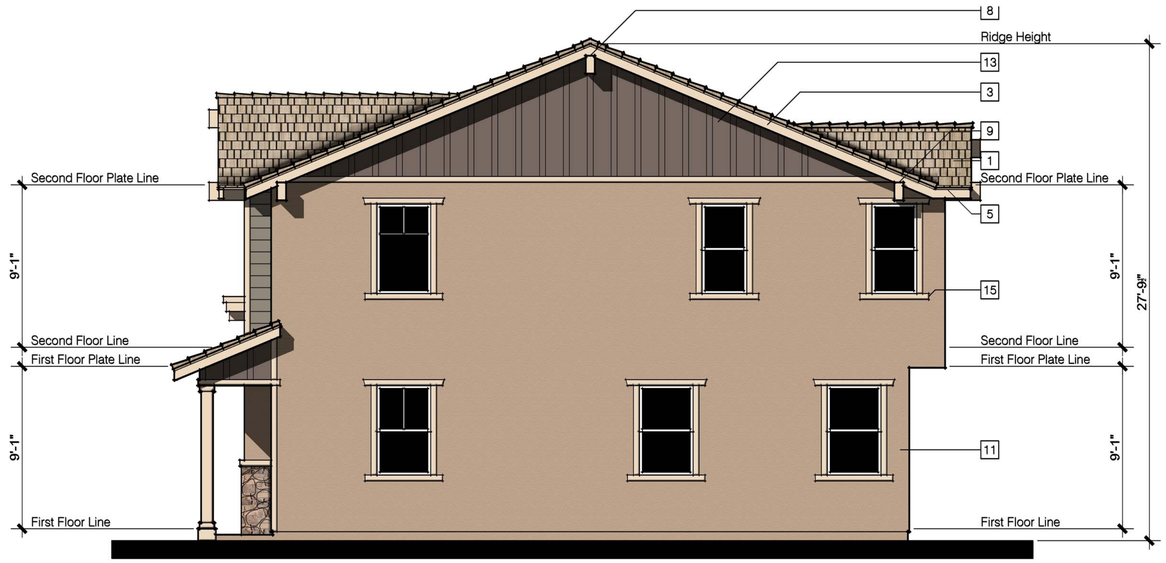
Date
January 20, 2020

Project Number
4437

Scale
1/4" = 1'-0"

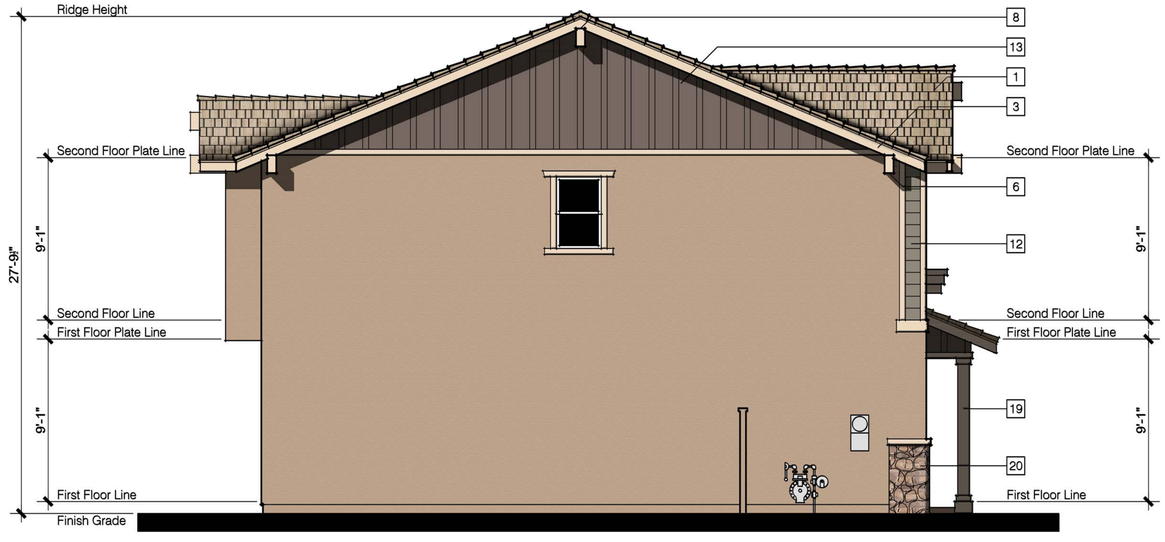
Revision
9-2-2020

Sheet No.
A-6

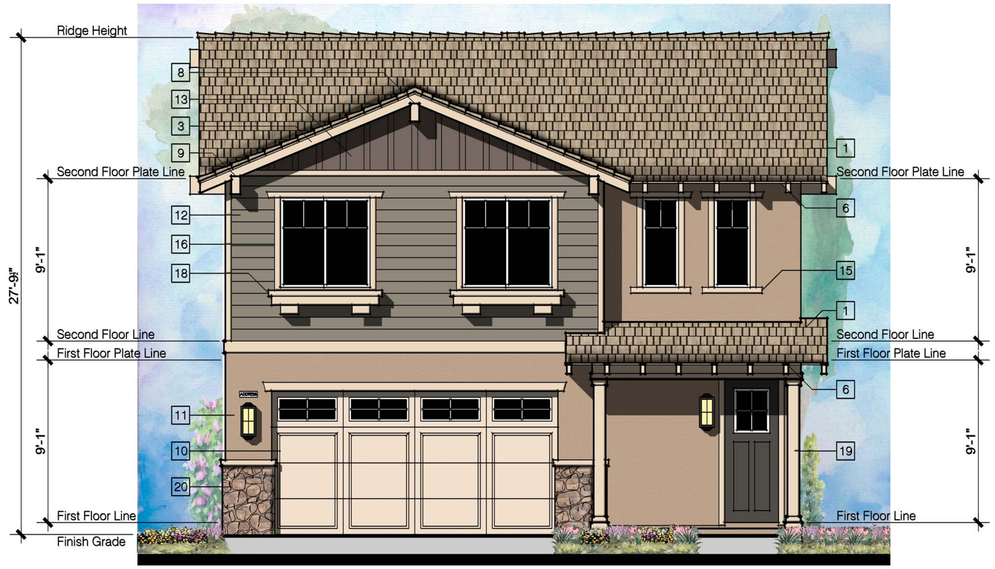


Right Elevation

Rear Elevation



Left Elevation



Front Elevation

Color & Material Boards — Scheme 5

See sheet A-13 for the Exterior Color and Material Palette.

Exterior Elevation Material Legend

Key	Material
1	Concrete 'Flat' Roof Tile
2	5 : 12 Roof Pitch
3	Wood Barges
4	18" Rakes
5	Wood Fascias
6	18" Eaves
7	3x6 Wood Rafter Tails At 24" o.c.
8	6x12 Wood False Ridge Beams
9	6x12 Wood Outlookers
10	Metal Sectional Garage Door With Optional Glass Top Panels
11	Stucco Finish
12	Fiber Cement Horizontal Lap Siding
13	Fiber Cement Board & Batt Siding At Gable Ends
14	Multi-Paned Windows
15	Foam Door & Window Trim With Stucco Over - On Stucco Walls
16	Wood Door & Window Trim - On Siding Walls
17	Stucco Over Foam Corbels
18	Wood Framed Potshelves
19	Wood Posts At The Entry
20	Synthetic Stone Veneer With A Pre-Cast Concrete Cap Grouted Finish Around Each Stone And Stone To Be Taken To Grade Below The Weepscreed.

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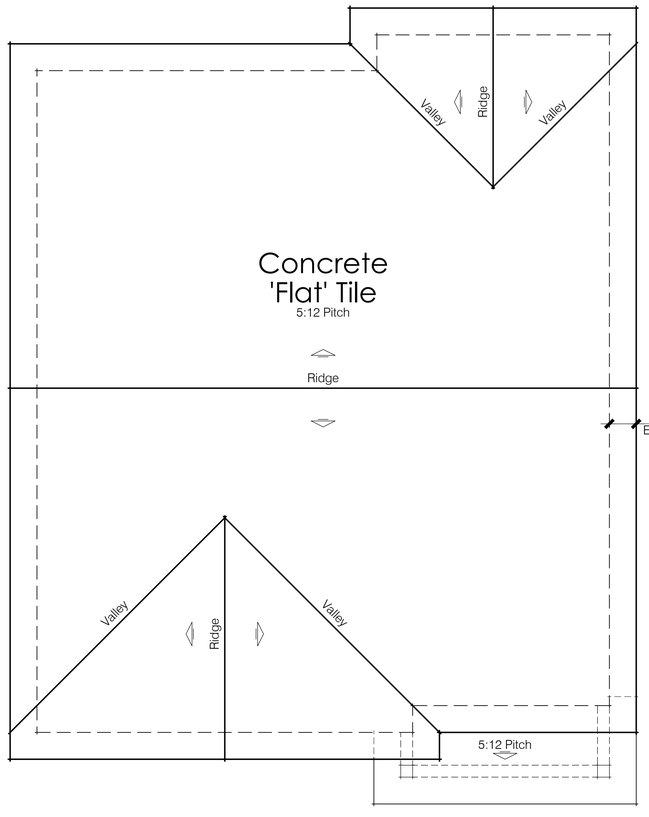
Pomona 34

Title
Plan 2
Conceptual
Elevation 'B'
Craftsman

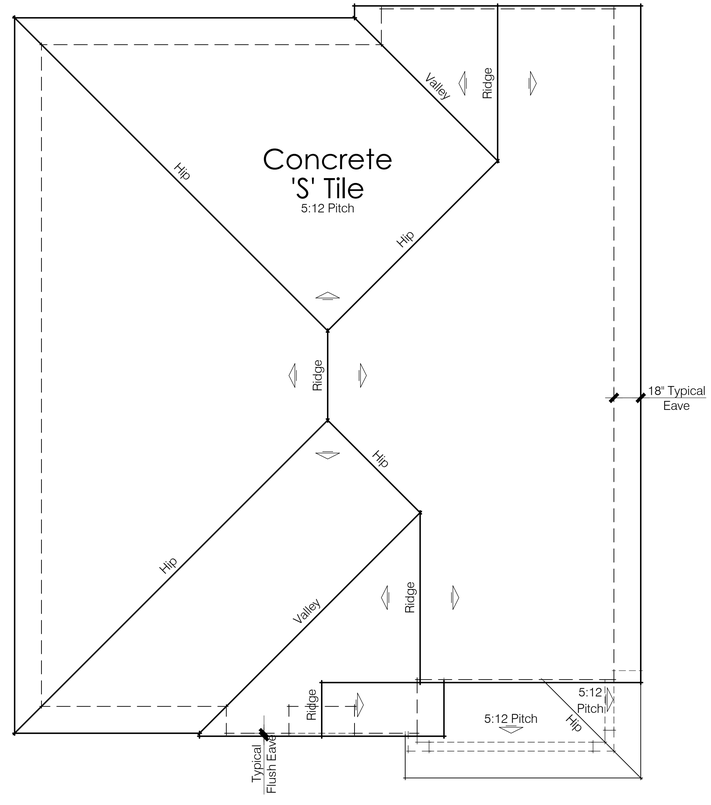
Date
January 20, 2020
Project Number
4437
Scale
1/4" = 1'-0"
Revision
9-2-2020

Sheet No.
A-7



Roof Plan 'B'

SCALE: 1/4"=1'-0"



Roof Plan 'A'

SCALE: 1/4"=1'-0"

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Pomona 34

Title
Plan 2
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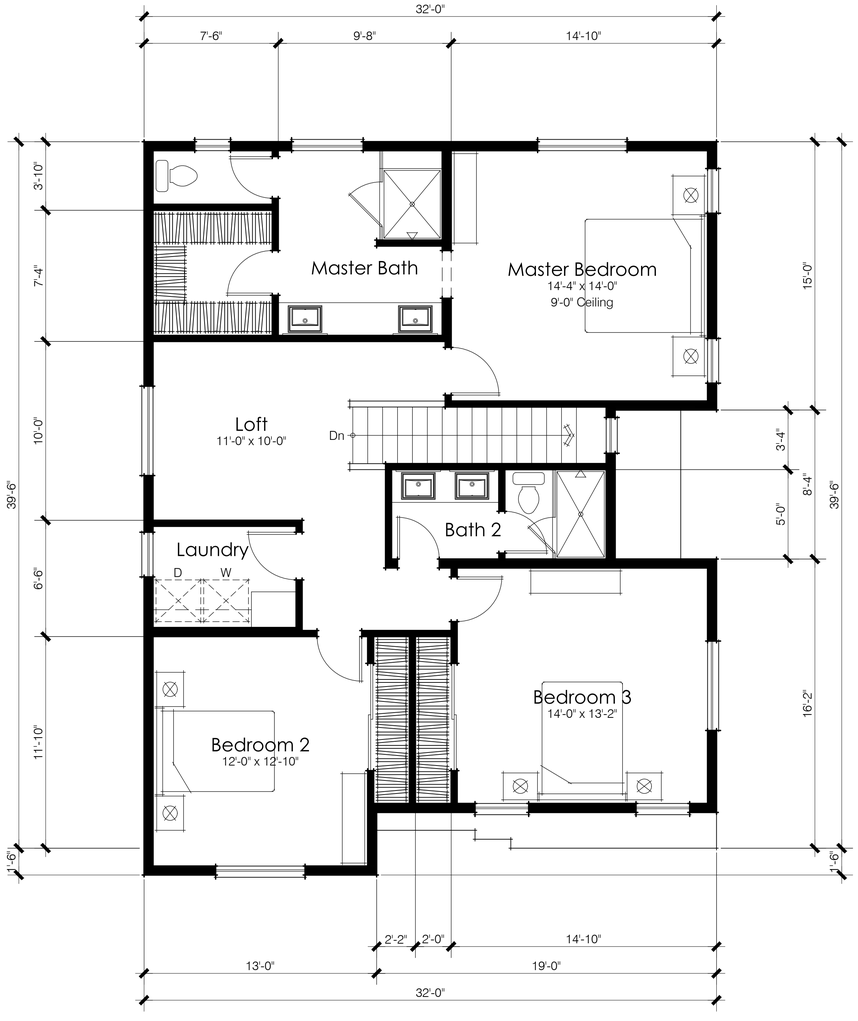
Roof Plan

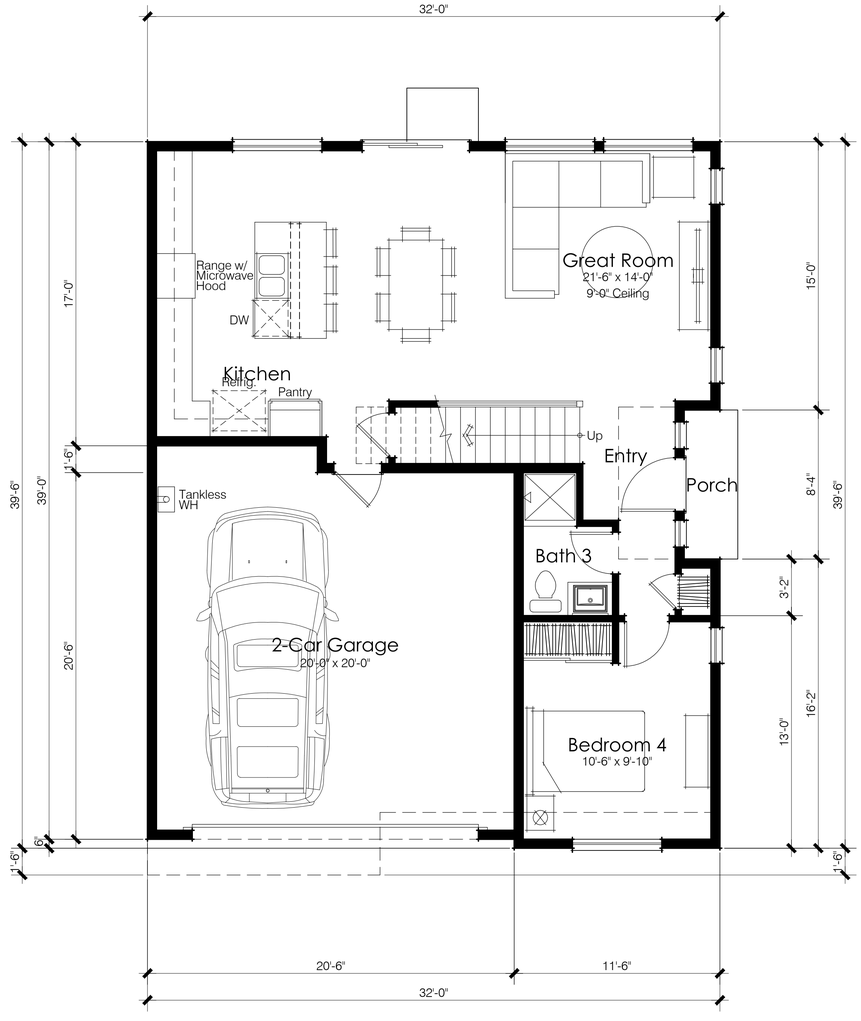
Date
January 20, 2020
Project Number
4437
Scale
1/4" = 1'-0"
Revision
9-2-2020

Sheet No.
A-8



Second Floor Plan

Occupancy Group	R-3 / U
Type Of Construction	VB
Stories	2
Fire Sprinklers	Yes - NFPA 13D



First Floor Plan

First Floor	803 sq. ft.
Second Floor	1,152 sq. ft.
Total:	1,955 sq. ft.
Garage	435 sq. ft.

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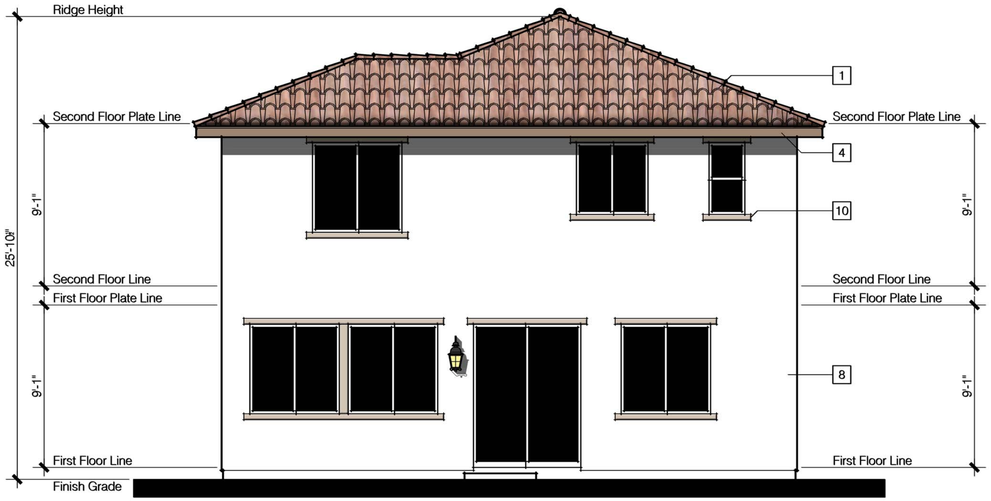
Pomona 34

Title
Plan 3
Conceptual
Floor Plan

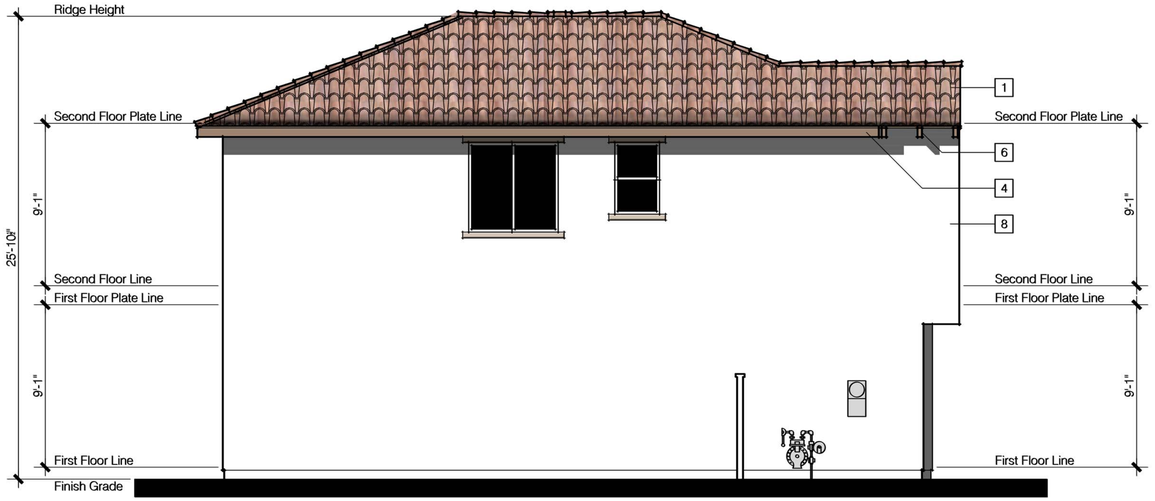
Date
January 20, 2020
Project Number
4437
Scale
1/4" = 1'-0"
Revision
1-29-2020

Sheet No.
A-9

Right Elevation



Rear Elevation



Left Elevation

Front Elevation

Color & Material Boards Scheme 3

See sheet A-13 for the Exterior Color and Material Palette.

Exterior Elevation Material Legend

Key	Material
1	Concrete 'S' Roof Tile
2	5 : 12 Roof Pitch
3	Flush Rakes
4	Wood Fascias
5	18" Eaves
6	3x6 Wood Rafter Tails At 24" o.c.
7	Metal Sectional Garage Door With Optional Glass Top Panels
8	Stucco Finish
9	Multi-Paned Windows
10	Foam Door & Window Trim With Stucco Over - On Stucco Walls
11	EPS Foam Pipe Vent Cover
12	EPS Foam Shutters
13	Stucco Over Foam Corbels
14	Wrought Iron Potshelves

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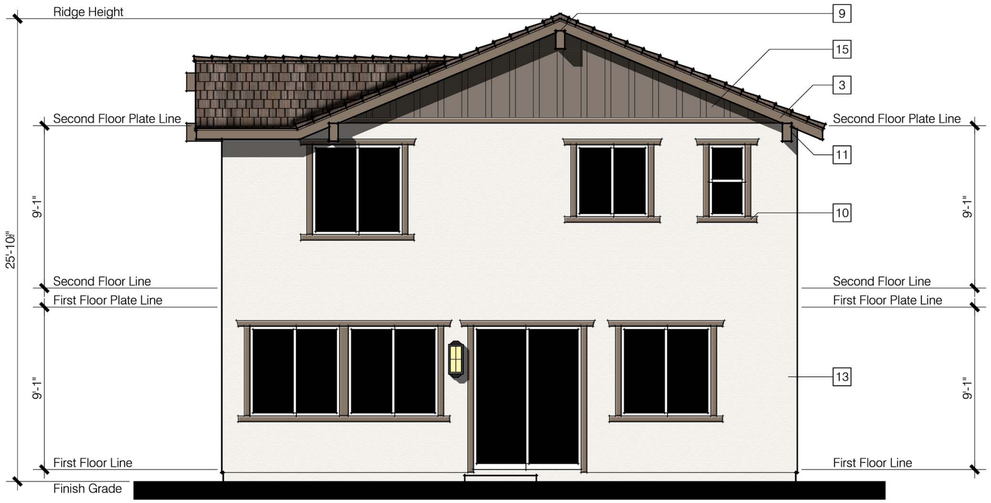
Pomona 34

Title
Plan 3
Conceptual
Elevation 'A'
Spanish

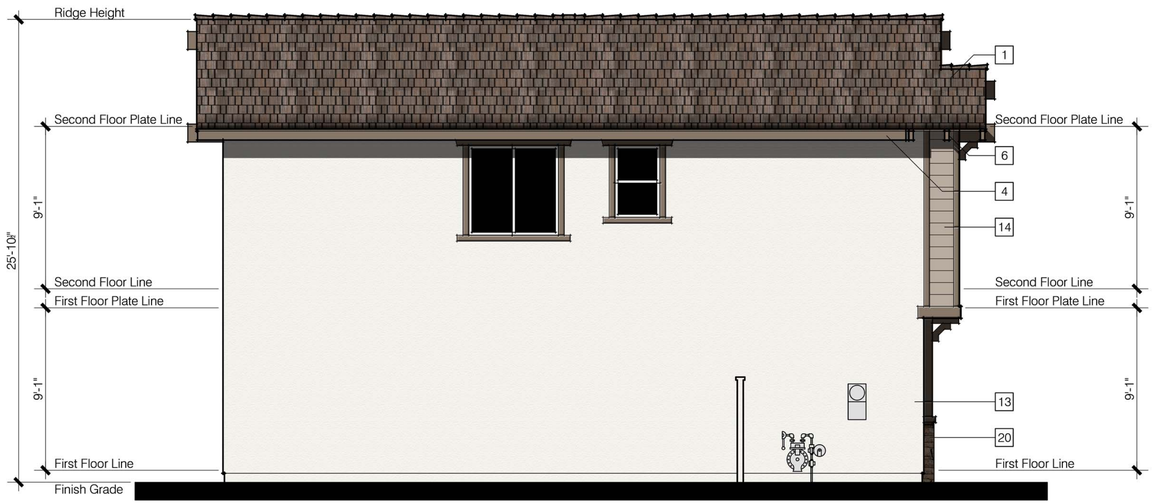
Date
January 20, 2020
Project Number
4437
Scale
1/4" = 1'-0"
Revision
9-2-2020

Sheet No.
A-10

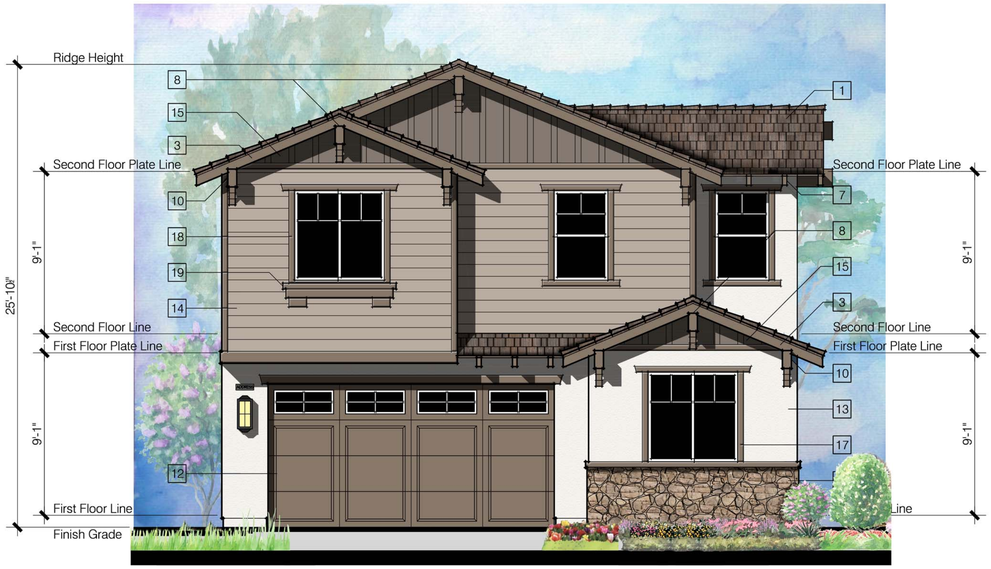
Right Elevation



Rear Elevation



Left Elevation



Front Elevation

Scheme 6

Color & Material Boards

See sheet A-13 for the Exterior Color and Material Palette.

Exterior Elevation Material Legend

Key	Material
1	Concrete 'Flat' Roof Tile
2	5 : 12 Roof Pitch
3	Wood Barges
4	18" Rakes
5	Wood Fascias
6	18" Eaves
7	3x6 Wood Rafter Tails At 24" o.c.
8	6x12 Wood False Ridge Beams With Angled Bracket
9	6x12 Wood False Ridge Beams
10	6x12 Wood Outlookers With Angled Bracket
11	6x12 Wood Outlookers
12	Metal Sectional Garage Door With Optional Glass Top Panels
13	Stucco Finish
14	Fiber Cement Horizontal Lap Siding
15	Fiber Cement Board & Batt Siding At Gable Ends
16	Multi-Paned Windows
17	Foam Door & Window Trim With Stucco Over - On Stucco Walls
18	Wood Door & Window Trim - On Siding Walls
19	Wood Framed Potshelves
20	Synthetic Stone Veneer With A Pre-Cast Concrete Cap Grouted Finish Around Each Stone And Stone To Be Taken To Grade Below The Weepscreed.

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Elevation 'B'
Craftsman

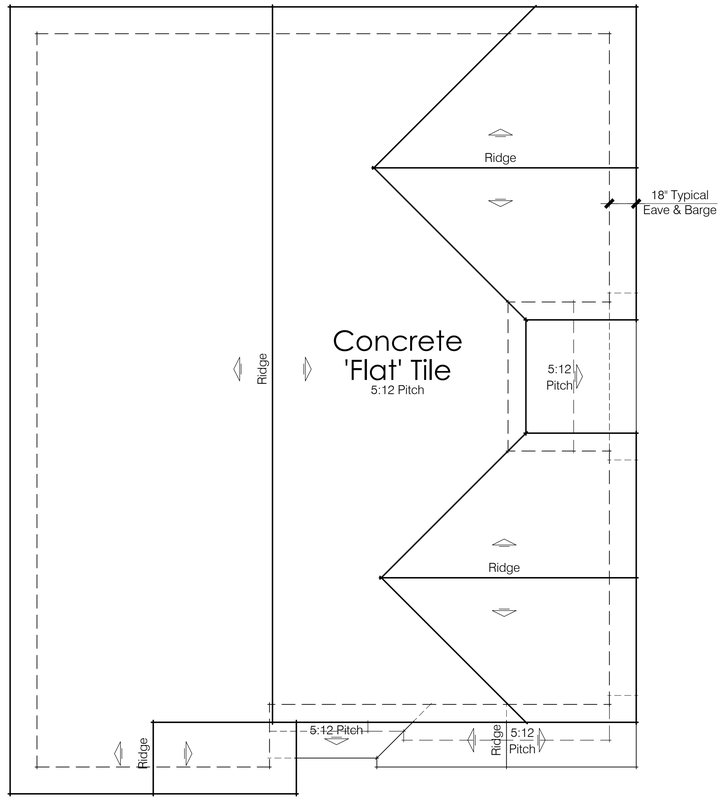
Date
January 20, 2020

Project Number
4437

Scale
1/4" = 1'-0"

Revision
9-2-2020

Sheet No.
A-11



Roof Plan 'B'

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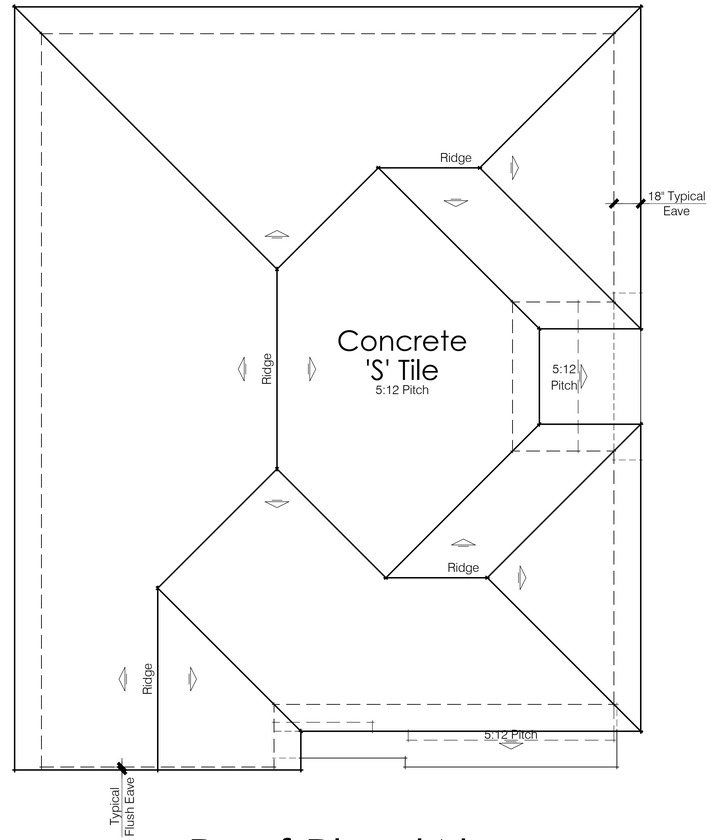

Roof Plan 'A'

SCALE: 1/4"=1'-0"

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Roof Plan

Date
January 20, 2020
Project Number
4437
Scale
1/4" = 1'-0"
Revision
9-2-2020

Sheet No.
A-12

Appendix B

Air Quality and Greenhouse Gas Modeling

20-10059 875 Orange Grove Project

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	21.94	1000sqft	0.50	21,939.00	0
Parking Lot	17.00	Space	0.15	6,800.00	0
City Park	0.27	Acre	0.27	6,476.00	0
Single Family Housing	33.00	Dwelling Unit	2.68	60,761.00	127

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - land use population based on service population calculation
land uses based on site plan provided by client
square feet for open space (city park used as proxy), parking lot, and road (other asphalt surfaces used as proxy) estimated using Google Earth
acreage adjsuted based on site plan provided by client

Construction Phase - demolition phase CalEEMod default
other construction phases provided by client and adjusted for 12 months

Off-road Equipment - 2 scrapers as per client

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading - material imported provided by client
material exported based on asphalt calculations

Demolition - estimated using Google Earth

Trips and VMT -

Vehicle Trips - City park = open space (no trips generated) provided by Ganddini Traffic Report.
Trip generation rates are from Trip Generation Manual, 10th Edition (Institute of Transportation Engineers, 2017) and are based on land use code 210 development located in "General Urban/Suburban" area. Remaining trips (RES H-W, etc.) rounded from default.

Woodstoves - assume no woodstoves/fireplaces

Area Coating - SCAQMD Rule 1113

Energy Use - Title 24 7% reduction

Construction Off-road Equipment Mitigation - water exposed area 3x per client

Energy Mitigation - solar PV calculation for renewable energy

Water Mitigation - reduce indoor water use by 20% per CalGREEN

Waste Mitigation - adjusted for 76 % diversion rate per CALRecycle 2015

20-10059 875 Orange Grove Project - South Coast AQMD Air District, Winter

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblConstructionPhase	NumDays	18.00	14.00
tblConstructionPhase	NumDays	18.00	14.00
tblConstructionPhase	NumDays	230.00	106.00
tblConstructionPhase	NumDays	230.00	106.00
tblConstructionPhase	NumDays	230.00	106.00
tblConstructionPhase	NumDays	8.00	45.00
tblConstructionPhase	NumDays	18.00	15.00
tblConstructionPhase	NumDays	5.00	15.00
tblEnergyUse	T24E	443.48	412.43
tblEnergyUse	T24NG	21,090.59	19,614.24
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberNoFireplace	3.30	33.00
tblFireplaces	NumberWood	1.65	0.00
tblGrading	MaterialExported	0.00	3,789.00
tblGrading	MaterialImported	0.00	4,750.00
tblLandUse	LandUseSquareFeet	21,940.00	21,939.00
tblLandUse	LandUseSquareFeet	11,761.20	6,476.00
tblLandUse	LandUseSquareFeet	59,400.00	60,761.00
tblLandUse	LotAcreage	10.71	2.68
tblLandUse	Population	94.00	127.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Site Preparation - Phase I
tblOffRoadEquipment	PhaseName		Grading - Phase I

tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	HO_TTP	40.60	41.00
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tblWoodstoves	WoodstoveWoodMass	999.60	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	32.0733	46.5295	37.4212	0.0731	7.3220	2.1343	9.4563	3.5736	1.9833	5.5569	0.0000	7,173.1059	7,173.1059	1.6486	0.0000	7,214.3204
2022	29.8020	17.9223	19.3925	0.0353	0.4153	0.8948	1.3101	0.1114	0.8467	0.9582	0.0000	3,391.2881	3,391.2881	0.6536	0.0000	3,407.6285
Maximum	**32.0733**	**46.5295**	**37.4212**	**0.0731**	**7.3220**	**2.1343**	**9.4563**	**3.5736**	**1.9833**	**5.5569**	**0.0000**	**7,173.1059**	**7,173.1059**	**1.6486**	**0.0000**	**7,214.3204**

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	32.0733	46.5295	37.4212	0.0731	3.3178	2.1343	5.4521	1.5183	1.9833	3.5017	0.0000	7,173.1059	7,173.1059	1.6486	0.0000	7,214.3204
2022	29.8020	17.9223	19.3925	0.0353	0.4153	0.8948	1.3101	0.1114	0.8467	0.9582	0.0000	3,391.2881	3,391.2881	0.6536	0.0000	3,407.6285
Maximum	**32.0733**	**46.5295**	**37.4212**	**0.0731**	**3.3178**	**2.1343**	**5.4521**	**1.5183**	**1.9833**	**3.5017**	**0.0000**	**7,173.1059**	**7,173.1059**	**1.6486**	**0.0000**	**7,214.3204**

	ROG	NOx	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**	**51.75**	**0.00**	**37.19**	**55.77**	**0.00**	**31.55**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.4557	0.4967	2.9252	3.1100e-003		0.0527	0.0527		0.0527	0.0527	0.0000	598.9108	598.9108	0.0161	0.0109	602.5591
Energy	0.0254	0.2166	0.0922	1.3800e-003		0.0175	0.0175		0.0175	0.0175		276.5325	276.5325	5.3000e-003	5.0700e-003	278.1757
Mobile	0.4696	2.2139	6.2721	0.0252	2.2622	0.0182	2.2803	0.6052	0.0169	0.6221		2,569.1834	2,569.1834	0.1179		2,572.1297
Total	**1.9507**	**2.9273**	**9.2894**	**0.0297**	**2.2622**	**0.0884**	**2.3506**	**0.6052**	**0.0871**	**0.6924**	**0.0000**	**3,444.6267**	**3,444.6267**	**0.1393**	**0.0160**	**3,452.8645**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.4557	0.4967	2.9252	3.1100e-003		0.0527	0.0527		0.0527	0.0527	0.0000	598.9108	598.9108	0.0161	0.0109	602.5591
Energy	0.0254	0.2166	0.0922	1.3800e-003		0.0175	0.0175		0.0175	0.0175		276.5325	276.5325	5.3000e-003	5.0700e-003	278.1757
Mobile	0.4696	2.2139	6.2721	0.0252	2.2622	0.0182	2.2803	0.6052	0.0169	0.6221		2,569.1834	2,569.1834	0.1179		2,572.1297
Total	**1.9507**	**2.9273**	**9.2894**	**0.0297**	**2.2622**	**0.0884**	**2.3506**	**0.6052**	**0.0871**	**0.6924**	**0.0000**	**3,444.6267**	**3,444.6267**	**0.1393**	**0.0160**	**3,452.8645**

	ROG	NOx	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	3/1/2021	3/26/2021	5	20	
2	Site Preparation - Phase I	Site Preparation	3/27/2021	4/16/2021	5	15	
3	Grading - Phase I	Grading	4/19/2021	6/18/2021	5	45	
4	Building Construction - Phase I	Building Construction	5/15/2021	10/11/2021	5	106	
5	Building Construction - Phase II	Building Construction	7/15/2021	12/9/2021	5	106	
6	Building Construction - Phase III	Building Construction	10/12/2021	3/8/2022	5	106	
7	Architectural Coating - Phase I	Architectural Coating	10/12/2021	10/29/2021	5	14	
8	Architectural Coating - Phase II	Architectural Coating	2/17/2022	3/8/2022	5	14	
9	Paving - Phase III	Paving	3/9/2022	3/29/2022	5	15	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.65

Residential Indoor: 123,041; Residential Outdoor: 41,014; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,724 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73

Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation - Phase I	Scrapers	2	8.00	367	0.48
Grading - Phase I	Excavators	1	8.00	158	0.38
Grading - Phase I	Graders	1	8.00	187	0.41
Grading - Phase I	Rubber Tired Dozers	1	8.00	247	0.40
Grading - Phase I	Scrapers	0		367	0.48
Grading - Phase I	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction - Phase I	Cranes	1	7.00	231	0.29
Building Construction - Phase I	Forklifts	3	8.00	89	0.20
Building Construction - Phase I	Generator Sets	1	8.00	84	0.74
Building Construction - Phase I	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phase I	Welders	1	8.00	46	0.45
Building Construction - Phase II	Cranes	1	7.00	231	0.29
Building Construction - Phase II	Forklifts	3	8.00	89	0.20
Building Construction - Phase II	Generator Sets	1	8.00	84	0.74
Building Construction - Phase II	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phase II	Welders	1	8.00	46	0.45
Building Construction - Phase III	Cranes	1	7.00	231	0.29
Building Construction - Phase III	Forklifts	3	8.00	89	0.20
Building Construction - Phase III	Generator Sets	1	8.00	84	0.74
Building Construction - Phase III	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phase III	Welders	1	8.00	46	0.45
Architectural Coating - Phase I	Air Compressors	1	6.00	78	0.48
Architectural Coating - Phase II	Air Compressors	1	6.00	78	0.48
Paving - Phase III	Pavers	1	8.00	130	0.42
Paving - Phase III	Paving Equipment	2	6.00	132	0.36

Paving - Phase III	Paving Equipment	2	6.00	132	0.36

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	104.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation - Phase I	2	5.00	0.00	375.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading - Phase I	6	15.00	0.00	594.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phase I	9	27.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phase II	9	27.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phase III	9	27.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Phase I	1	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Phase II	1	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving - Phase III	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 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					1.1273	0.0000	1.1273	0.1707	0.0000	0.1707			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**1.1273**	**1.5513**	**2.6787**	**0.1707**	**1.4411**	**1.6118**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

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	0.0388	1.3312	0.2989	3.9100e-003	0.0909	4.1400e-003	0.0950	0.0249	3.9600e-003	0.0289		423.3816	423.3816	0.0300		424.1314
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	0.5078	1.5600e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		155.3502	155.3502	4.1600e-003		155.4543
Total	**0.1080**	**1.3761**	**0.8068**	**5.4700e-003**	**0.2585**	**5.3700e-003**	**0.2639**	**0.0694**	**5.1000e-003**	**0.0745**		**578.7318**	**578.7318**	**0.0342**		**579.5857**

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					
Fugitive Dust					0.4397	0.0000	0.4397	0.0666	0.0000	0.0666			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**0.4397**	**1.5513**	**1.9910**	**0.0666**	**1.4411**	**1.5077**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

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	0.0388	1.3312	0.2989	3.9100e-003	0.0909	4.1400e-003	0.0950	0.0249	3.9600e-003	0.0289		423.3816	423.3816	0.0300		424.1314
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	0.5078	1.5600e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		155.3502	155.3502	4.1600e-003		155.4543
Total	**0.1080**	**1.3761**	**0.8068**	**5.4700e-003**	**0.2585**	**5.3700e-003**	**0.2639**	**0.0694**	**5.1000e-003**	**0.0745**		**578.7318**	**578.7318**	**0.0342**		**579.5857**

3.3 Site Preparation - Phase I - 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					2.1436	0.0000	2.1436	0.2324	0.0000	0.2324			0.0000			0.0000
Off-Road	1.8589	21.4056	14.0094	0.0303		0.8328	0.8328		0.7661	0.7661		2,935.8230	2,935.8230	0.9495		2,959.5607
Total	**1.8589**	**21.4056**	**14.0094**	**0.0303**	**2.1436**	**0.8328**	**2.9764**	**0.2324**	**0.7661**	**0.9986**		**2,935.8230**	**2,935.8230**	**0.9495**		**2,959.5607**

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	0.1866	6.3999	1.4372	0.0188	0.4369	0.0199	0.4568	0.1197	0.0190	0.1388		2,035.4883	2,035.4883	0.1442		2,039.0933
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	0.0231	0.0150	0.1693	5.2000e-004	0.0559	4.1000e-004	0.0563	0.0148	3.8000e-004	0.0152		51.7834	51.7834	1.3900e-003		51.8181
Total	**0.2096**	**6.4149**	**1.6065**	**0.0193**	**0.4927**	**0.0203**	**0.5131**	**0.1345**	**0.0194**	**0.1540**		**2,087.2717**	**2,087.2717**	**0.1456**		**2,090.9114**

3.3 Site Preparation - Phase I - 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					0.8360	0.0000	0.8360	0.0907	0.0000	0.0907			0.0000			0.0000
Off-Road	1.8589	21.4056	14.0094	0.0303		0.8328	0.8328		0.7661	0.7661	0.0000	2,935.8230	2,935.8230	0.9495		2,959.5607
Total	**1.8589**	**21.4056**	**14.0094**	**0.0303**	**0.8360**	**0.8328**	**1.6688**	**0.0907**	**0.7661**	**0.8568**	**0.0000**	**2,935.8230**	**2,935.8230**	**0.9495**		**2,959.5607**

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	0.1866	6.3999	1.4372	0.0188	0.4369	0.0199	0.4568	0.1197	0.0190	0.1388		2,035.4883	2,035.4883	0.1442		2,039.0933
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	0.0231	0.0150	0.1693	5.2000e-004	0.0559	4.1000e-004	0.0563	0.0148	3.8000e-004	0.0152		51.7834	51.7834	1.3900e-003		51.8181
Total	**0.2096**	**6.4149**	**1.6065**	**0.0193**	**0.4927**	**0.0203**	**0.5131**	**0.1345**	**0.0194**	**0.1540**		**2,087.2717**	**2,087.2717**	**0.1456**		**2,090.9114**

3.4 Grading - Phase I - 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					6.5643	0.0000	6.5643	3.3693	0.0000	3.3693			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**6.5643**	**1.1599**	**7.7242**	**3.3693**	**1.0671**	**4.4364**		**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

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	0.0985	3.3792	0.7589	9.9300e-003	0.2307	0.0105	0.2412	0.0632	0.0101	0.0733		1,074.7378	1,074.7378	0.0761		1,076.6413
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	0.5078	1.5600e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		155.3502	155.3502	4.1600e-003		155.4543
Total	**0.1677**	**3.4241**	**1.2667**	**0.0115**	**0.3983**	**0.0117**	**0.4101**	**0.1077**	**0.0112**	**0.1189**		**1,230.0880**	**1,230.0880**	**0.0803**		**1,232.0955**

3.4 Grading - Phase I - 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					2.5601	0.0000	2.5601	1.3140	0.0000	1.3140			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**2.5601**	**1.1599**	**3.7200**	**1.3140**	**1.0671**	**2.3811**	**0.0000**	**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

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	0.0985	3.3792	0.7589	9.9300e-003	0.2307	0.0105	0.2412	0.0632	0.0101	0.0733		1,074.7378	1,074.7378	0.0761		1,076.6413
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	0.5078	1.5600e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		155.3502	155.3502	4.1600e-003		155.4543
Total	**0.1677**	**3.4241**	**1.2667**	**0.0115**	**0.3983**	**0.0117**	**0.4101**	**0.1077**	**0.0112**	**0.1189**		**1,230.0880**	**1,230.0880**	**0.0803**		**1,232.0955**

3.5 Building Construction - Phase I - 2021

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0264	0.8557	0.2279	2.2300e-003	0.0576	1.7800e-003	0.0594	0.0166	1.7100e-003	0.0183		238.0952	238.0952	0.0159		238.4934
Worker	0.1245	0.0809	0.9141	2.8100e-003	0.3018	2.2200e-003	0.3040	0.0800	2.0500e-003	0.0821		279.6303	279.6303	7.4900e-003		279.8177
Total	**0.1509**	**0.9366**	**1.1420**	**5.0400e-003**	**0.3594**	**4.0000e-003**	**0.3634**	**0.0966**	**3.7600e-003**	**0.1004**		**517.7255**	**517.7255**	**0.0234**		**518.3111**

3.5 Building Construction - Phase I - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0264	0.8557	0.2279	2.2300e-003	0.0576	1.7800e-003	0.0594	0.0166	1.7100e-003	0.0183		238.0952	238.0952	0.0159		238.4934
Worker	0.1245	0.0809	0.9141	2.8100e-003	0.3018	2.2200e-003	0.3040	0.0800	2.0500e-003	0.0821		279.6303	279.6303	7.4900e-003		279.8177
Total	**0.1509**	**0.9366**	**1.1420**	**5.0400e-003**	**0.3594**	**4.0000e-003**	**0.3634**	**0.0966**	**3.7600e-003**	**0.1004**		**517.7255**	**517.7255**	**0.0234**		**518.3111**

3.6 Building Construction - Phase II - 2021

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0264	0.8557	0.2279	2.2300e-003	0.0576	1.7800e-003	0.0594	0.0166	1.7100e-003	0.0183		238.0952	238.0952	0.0159		238.4934
Worker	0.1245	0.0809	0.9141	2.8100e-003	0.3018	2.2200e-003	0.3040	0.0800	2.0500e-003	0.0821		279.6303	279.6303	7.4900e-003		279.8177
Total	**0.1509**	**0.9366**	**1.1420**	**5.0400e-003**	**0.3594**	**4.0000e-003**	**0.3634**	**0.0966**	**3.7600e-003**	**0.1004**		**517.7255**	**517.7255**	**0.0234**		**518.3111**

3.6 Building Construction - Phase II - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0264	0.8557	0.2279	2.2300e-003	0.0576	1.7800e-003	0.0594	0.0166	1.7100e-003	0.0183		238.0952	238.0952	0.0159		238.4934
Worker	0.1245	0.0809	0.9141	2.8100e-003	0.3018	2.2200e-003	0.3040	0.0800	2.0500e-003	0.0821		279.6303	279.6303	7.4900e-003		279.8177
Total	**0.1509**	**0.9366**	**1.1420**	**5.0400e-003**	**0.3594**	**4.0000e-003**	**0.3634**	**0.0966**	**3.7600e-003**	**0.1004**		**517.7255**	**517.7255**	**0.0234**		**518.3111**

3.7 Building Construction - Phase III - 2021

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0264	0.8557	0.2279	2.2300e-003	0.0576	1.7800e-003	0.0594	0.0166	1.7100e-003	0.0183		238.0952	238.0952	0.0159		238.4934
Worker	0.1245	0.0809	0.9141	2.8100e-003	0.3018	2.2200e-003	0.3040	0.0800	2.0500e-003	0.0821		279.6303	279.6303	7.4900e-003		279.8177
Total	**0.1509**	**0.9366**	**1.1420**	**5.0400e-003**	**0.3594**	**4.0000e-003**	**0.3634**	**0.0966**	**3.7600e-003**	**0.1004**		**517.7255**	**517.7255**	**0.0234**		**518.3111**

3.7 Building Construction - Phase III - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0264	0.8557	0.2279	2.2300e-003	0.0576	1.7800e-003	0.0594	0.0166	1.7100e-003	0.0183		238.0952	238.0952	0.0159		238.4934
Worker	0.1245	0.0809	0.9141	2.8100e-003	0.3018	2.2200e-003	0.3040	0.0800	2.0500e-003	0.0821		279.6303	279.6303	7.4900e-003		279.8177
Total	**0.1509**	**0.9366**	**1.1420**	**5.0400e-003**	**0.3594**	**4.0000e-003**	**0.3634**	**0.0966**	**3.7600e-003**	**0.1004**		**517.7255**	**517.7255**	**0.0234**		**518.3111**

3.7 Building Construction - Phase III - 2022

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0247	0.8115	0.2155	2.2100e-003	0.0576	1.5500e-003	0.0592	0.0166	1.4800e-003	0.0181		235.9748	235.9748	0.0153		236.3579
Worker	0.1171	0.0731	0.8437	2.7000e-003	0.3018	2.1600e-003	0.3040	0.0800	1.9900e-003	0.0820		269.6049	269.6049	6.7700e-003		269.7741
Total	**0.1418**	**0.8846**	**1.0592**	**4.9100e-003**	**0.3594**	**3.7100e-003**	**0.3631**	**0.0966**	**3.4700e-003**	**0.1001**		**505.5797**	**505.5797**	**0.0221**		**506.1320**

3.7 Building Construction - Phase III - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0247	0.8115	0.2155	2.2100e-003	0.0576	1.5500e-003	0.0592	0.0166	1.4800e-003	0.0181		235.9748	235.9748	0.0153		236.3579
Worker	0.1171	0.0731	0.8437	2.7000e-003	0.3018	2.1600e-003	0.3040	0.0800	1.9900e-003	0.0820		269.6049	269.6049	6.7700e-003		269.7741
Total	**0.1418**	**0.8846**	**1.0592**	**4.9100e-003**	**0.3594**	**3.7100e-003**	**0.3631**	**0.0966**	**3.4700e-003**	**0.1001**		**505.5797**	**505.5797**	**0.0221**		**506.1320**

3.8 Architectural Coating - Phase I - 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	27.7277					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	**27.9466**	**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	0.0231	0.0150	0.1693	5.2000e-004	0.0559	4.1000e-004	0.0563	0.0148	3.8000e-004	0.0152		51.7834	51.7834	1.3900e-003		51.8181
Total	**0.0231**	**0.0150**	**0.1693**	**5.2000e-004**	**0.0559**	**4.1000e-004**	**0.0563**	**0.0148**	**3.8000e-004**	**0.0152**		**51.7834**	**51.7834**	**1.3900e-003**		**51.8181**

3.8 Architectural Coating - Phase I - 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	27.7277					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	**27.9466**	**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	0.0231	0.0150	0.1693	5.2000e-004	0.0559	4.1000e-004	0.0563	0.0148	3.8000e-004	0.0152		51.7834	51.7834	1.3900e-003		51.8181
Total	**0.0231**	**0.0150**	**0.1693**	**5.2000e-004**	**0.0559**	**4.1000e-004**	**0.0563**	**0.0148**	**3.8000e-004**	**0.0152**		**51.7834**	**51.7834**	**1.3900e-003**		**51.8181**

3.9 Architectural Coating - Phase II - 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	27.7277					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	**27.9323**	**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	0.0217	0.0135	0.1562	5.0000e-004	0.0559	4.0000e-004	0.0563	0.0148	3.7000e-004	0.0152		49.9268	49.9268	1.2500e-003		49.9582
Total	**0.0217**	**0.0135**	**0.1562**	**5.0000e-004**	**0.0559**	**4.0000e-004**	**0.0563**	**0.0148**	**3.7000e-004**	**0.0152**		**49.9268**	**49.9268**	**1.2500e-003**		**49.9582**

3.9 Architectural Coating - Phase II - 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	27.7277					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	**27.9323**	**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	0.0217	0.0135	0.1562	5.0000e-004	0.0559	4.0000e-004	0.0563	0.0148	3.7000e-004	0.0152		49.9268	49.9268	1.2500e-003		49.9582
Total	**0.0217**	**0.0135**	**0.1562**	**5.0000e-004**	**0.0559**	**4.0000e-004**	**0.0563**	**0.0148**	**3.7000e-004**	**0.0152**		**49.9268**	**49.9268**	**1.2500e-003**		**49.9582**

3.10 Paving - Phase III - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7416	7.3119	10.5219	0.0169		0.3540	0.3540		0.3257	0.3257		1,638.6631	1,638.6631	0.5300		1,651.9125
Paving	0.1135					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8551**	**7.3119**	**10.5219**	**0.0169**		**0.3540**	**0.3540**		**0.3257**	**0.3257**		**1,638.6631**	**1,638.6631**	**0.5300**		**1,651.9125**

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	0.4062	1.3000e-003	0.1453	1.0400e-003	0.1464	0.0385	9.6000e-004	0.0395		129.8098	129.8098	3.2600e-003		129.8912
Total	**0.0564**	**0.0352**	**0.4062**	**1.3000e-003**	**0.1453**	**1.0400e-003**	**0.1464**	**0.0385**	**9.6000e-004**	**0.0395**		**129.8098**	**129.8098**	**3.2600e-003**		**129.8912**

3.10 Paving - Phase III - 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	0.7416	7.3119	10.5219	0.0169		0.3540	0.3540		0.3257	0.3257	0.0000	1,638.6631	1,638.6631	0.5300		1,651.9125
Paving	0.1135					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8551**	**7.3119**	**10.5219**	**0.0169**		**0.3540**	**0.3540**		**0.3257**	**0.3257**	**0.0000**	**1,638.6631**	**1,638.6631**	**0.5300**		**1,651.9125**

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	0.4062	1.3000e-003	0.1453	1.0400e-003	0.1464	0.0385	9.6000e-004	0.0395		129.8098	129.8098	3.2600e-003		129.8912
Total	**0.0564**	**0.0352**	**0.4062**	**1.3000e-003**	**0.1453**	**1.0400e-003**	**0.1464**	**0.0385**	**9.6000e-004**	**0.0395**		**129.8098**	**129.8098**	**3.2600e-003**		**129.8912**

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	0.4696	2.2139	6.2721	0.0252	2.2622	0.0182	2.2803	0.6052	0.0169	0.6221		2,569.1834	2,569.1834	0.1179		2,572.1297
Unmitigated	0.4696	2.2139	6.2721	0.0252	2.2622	0.0182	2.2803	0.6052	0.0169	0.6221		2,569.1834	2,569.1834	0.1179		2,572.1297

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	311.52	311.52	311.52	1,063,867	1,063,867
Total	311.52	311.52	311.52	1,063,867	1,063,867

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
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Other Asphalt Surfaces	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Parking Lot	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Single Family Housing	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0254	0.2166	0.0922	1.3800e-003		0.0175	0.0175		0.0175	0.0175		276.5325	276.5325	5.3000e-003	5.0700e-003	278.1757
NaturalGas Unmitigated	0.0254	0.2166	0.0922	1.3800e-003		0.0175	0.0175		0.0175	0.0175		276.5325	276.5325	5.3000e-003	5.0700e-003	278.1757

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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Single Family Housing	2350.53	0.0254	0.2166	0.0922	1.3800e-003		0.0175	0.0175		0.0175	0.0175		276.5325	276.5325	5.3000e-003	5.0700e-003	278.1757
Total		**0.0254**	**0.2166**	**0.0922**	**1.3800e-003**		**0.0175**	**0.0175**		**0.0175**	**0.0175**		**276.5325**	**276.5325**	**5.3000e-003**	**5.0700e-003**	**278.1757**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Single Family Housing	2.35053	0.0254	0.2166	0.0922	1.3800e-003		0.0175	0.0175		0.0175	0.0175		276.5325	276.5325	5.3000e-003	5.0700e-003	278.1757
Total		**0.0254**	**0.2166**	**0.0922**	**1.3800e-003**		**0.0175**	**0.0175**		**0.0175**	**0.0175**		**276.5325**	**276.5325**	**5.3000e-003**	**5.0700e-003**	**278.1757**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.4557	0.4967	2.9252	3.1100e-003		0.0527	0.0527		0.0527	0.0527	0.0000	598.9108	598.9108	0.0161	0.0109	602.5591
Unmitigated	1.4557	0.4967	2.9252	3.1100e-003		0.0527	0.0527		0.0527	0.0527	0.0000	598.9108	598.9108	0.0161	0.0109	602.5591

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	0.1053					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2136					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0545	0.4653	0.1980	2.9700e-003		0.0376	0.0376		0.0376	0.0376	0.0000	594.0000	594.0000	0.0114	0.0109	597.5298
Landscaping	0.0824	0.0314	2.7272	1.4000e-004		0.0151	0.0151		0.0151	0.0151		4.9108	4.9108	4.7400e-003		5.0292
Total	**1.4557**	**0.4967**	**2.9252**	**3.1100e-003**		**0.0527**	**0.0527**		**0.0527**	**0.0527**	**0.0000**	**598.9108**	**598.9108**	**0.0161**	**0.0109**	**602.5591**

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	0.1053					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2136					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0545	0.4653	0.1980	2.9700e-003		0.0376	0.0376		0.0376	0.0376	0.0000	594.0000	594.0000	0.0114	0.0109	597.5298
Landscaping	0.0824	0.0314	2.7272	1.4000e-004		0.0151	0.0151		0.0151	0.0151		4.9108	4.9108	4.7400e-003		5.0292
Total	**1.4557**	**0.4967**	**2.9252**	**3.1100e-003**		**0.0527**	**0.0527**		**0.0527**	**0.0527**	**0.0000**	**598.9108**	**598.9108**	**0.0161**	**0.0109**	**602.5591**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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

20-10059 875 Orange Grove Project

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	21.94	1000sqft	0.50	21,939.00	0
Parking Lot	17.00	Space	0.15	6,800.00	0
City Park	0.27	Acre	0.27	6,476.00	0
Single Family Housing	33.00	Dwelling Unit	2.68	60,761.00	127

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - land use population based on service population calculation
land uses based on site plan provided by client
square feet for open space (city park used as proxy), parking lot, and road (other asphalt surfaces used as proxy) estimated using Google Earth
acreage adjsuted based on site plan provided by client

Construction Phase - demolition phase CalEEMod default
other construction phases provided by client and adjusted for 12 months

Off-road Equipment - 2 scrapers as per client

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading - material imported provided by client
material exported based on asphalt calculations

Demolition - estimated using Google Earth

Trips and VMT -

Vehicle Trips - City park = open space (no trips generated) provided by Ganddini Traffic Report.
Trip generation rates are from Trip Generation Manual, 10th Edition (Institute of Transportation Engineers, 2017) and are based on land use code 210 development located in "General Urban/Suburban" area. Remaining trips (RES H-W, etc.) rounded from default.

Woodstoves - assume no woodstoves/fireplaces

Area Coating - SCAQMD Rule 1113

Energy Use - Title 24 7% reduction

Construction Off-road Equipment Mitigation - water exposed area 3x per client

Energy Mitigation - solar PV calculation for renewable energy

Water Mitigation - reduce indoor water use by 20% per CalGREEN

Waste Mitigation - adjusted for 76 % diversion rate per CALRecycle 2015

20-10059 875 Orange Grove Project - South Coast AQMD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblConstructionPhase	NumDays	18.00	14.00
tblConstructionPhase	NumDays	18.00	14.00
tblConstructionPhase	NumDays	230.00	106.00
tblConstructionPhase	NumDays	230.00	106.00
tblConstructionPhase	NumDays	230.00	106.00
tblConstructionPhase	NumDays	8.00	45.00
tblConstructionPhase	NumDays	18.00	15.00
tblConstructionPhase	NumDays	5.00	15.00
tblEnergyUse	T24E	443.48	412.43
tblEnergyUse	T24NG	21,090.59	19,614.24
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberNoFireplace	3.30	33.00
tblFireplaces	NumberWood	1.65	0.00
tblGrading	MaterialExported	0.00	3,789.00
tblGrading	MaterialImported	0.00	4,750.00
tblLandUse	LandUseSquareFeet	21,940.00	21,939.00
tblLandUse	LandUseSquareFeet	11,761.20	6,476.00
tblLandUse	LandUseSquareFeet	59,400.00	60,761.00
tblLandUse	LotAcreage	10.71	2.68
tblLandUse	Population	94.00	127.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Site Preparation - Phase I
tblOffRoadEquipment	PhaseName		Grading - Phase I

tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	9.91	9.44
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	8.62	9.44
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.52	9.44
tblWoodstoves	WoodstoveWoodMass	999.60	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	32.0476	46.4816	37.5980	0.0737	7.3220	2.1341	9.4561	3.5736	1.9831	5.5567	0.0000	7,230.5886	7,230.5886	1.6452	0.0000	7,271.7198
2022	29.7887	17.9181	19.4842	0.0356	0.4153	0.8948	1.3101	0.1114	0.8467	0.9581	0.0000	3,420.5065	3,420.5065	0.6532	0.0000	3,436.8355
Maximum	**32.0476**	**46.4816**	**37.5980**	**0.0737**	**7.3220**	**2.1341**	**9.4561**	**3.5736**	**1.9831**	**5.5567**	**0.0000**	**7,230.5886**	**7,230.5886**	**1.6452**	**0.0000**	**7,271.7198**

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	32.0476	46.4816	37.5980	0.0737	3.3178	2.1341	5.4519	1.5183	1.9831	3.5015	0.0000	7,230.5886	7,230.5886	1.6452	0.0000	7,271.7198
2022	29.7887	17.9181	19.4842	0.0356	0.4153	0.8948	1.3101	0.1114	0.8467	0.9581	0.0000	3,420.5065	3,420.5065	0.6532	0.0000	3,436.8355
Maximum	**32.0476**	**46.4816**	**37.5980**	**0.0737**	**3.3178**	**2.1341**	**5.4519**	**1.5183**	**1.9831**	**3.5015**	**0.0000**	**7,230.5886**	**7,230.5886**	**1.6452**	**0.0000**	**7,271.7198**

	ROG	NOx	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**	**51.75**	**0.00**	**37.19**	**55.77**	**0.00**	**31.55**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.4557	0.4967	2.9252	3.1100e-003		0.0527	0.0527		0.0527	0.0527	0.0000	598.9108	598.9108	0.0161	0.0109	602.5591
Energy	0.0254	0.2166	0.0922	1.3800e-003		0.0175	0.0175		0.0175	0.0175		276.5325	276.5325	5.3000e-003	5.0700e-003	278.1757
Mobile	0.4958	2.1704	6.7359	0.0266	2.2622	0.0181	2.2802	0.6052	0.0168	0.6221		2,711.6260	2,711.6260	0.1182		2,714.5812
Total	**1.9769**	**2.8838**	**9.7532**	**0.0311**	**2.2622**	**0.0883**	**2.3505**	**0.6052**	**0.0870**	**0.6923**	**0.0000**	**3,587.0693**	**3,587.0693**	**0.1396**	**0.0160**	**3,595.3161**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.4557	0.4967	2.9252	3.1100e-003		0.0527	0.0527		0.0527	0.0527	0.0000	598.9108	598.9108	0.0161	0.0109	602.5591
Energy	0.0254	0.2166	0.0922	1.3800e-003		0.0175	0.0175		0.0175	0.0175		276.5325	276.5325	5.3000e-003	5.0700e-003	278.1757
Mobile	0.4958	2.1704	6.7359	0.0266	2.2622	0.0181	2.2802	0.6052	0.0168	0.6221		2,711.6260	2,711.6260	0.1182		2,714.5812
Total	**1.9769**	**2.8838**	**9.7532**	**0.0311**	**2.2622**	**0.0883**	**2.3505**	**0.6052**	**0.0870**	**0.6923**	**0.0000**	**3,587.0693**	**3,587.0693**	**0.1396**	**0.0160**	**3,595.3161**

	ROG	NOx	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	3/1/2021	3/26/2021	5	20	
2	Site Preparation - Phase I	Site Preparation	3/27/2021	4/16/2021	5	15	
3	Grading - Phase I	Grading	4/19/2021	6/18/2021	5	45	
4	Building Construction - Phase I	Building Construction	5/15/2021	10/11/2021	5	106	
5	Building Construction - Phase II	Building Construction	7/15/2021	12/9/2021	5	106	
6	Building Construction - Phase III	Building Construction	10/12/2021	3/8/2022	5	106	
7	Architectural Coating - Phase I	Architectural Coating	10/12/2021	10/29/2021	5	14	
8	Architectural Coating - Phase II	Architectural Coating	2/17/2022	3/8/2022	5	14	
9	Paving - Phase III	Paving	3/9/2022	3/29/2022	5	15	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.65

Residential Indoor: 123,041; Residential Outdoor: 41,014; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,724 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73

Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation - Phase I	Scrapers	2	8.00	367	0.48
Grading - Phase I	Excavators	1	8.00	158	0.38
Grading - Phase I	Graders	1	8.00	187	0.41
Grading - Phase I	Rubber Tired Dozers	1	8.00	247	0.40
Grading - Phase I	Scrapers	0		367	0.48
Grading - Phase I	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction - Phase I	Cranes	1	7.00	231	0.29
Building Construction - Phase I	Forklifts	3	8.00	89	0.20
Building Construction - Phase I	Generator Sets	1	8.00	84	0.74
Building Construction - Phase I	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phase I	Welders	1	8.00	46	0.45
Building Construction - Phase II	Cranes	1	7.00	231	0.29
Building Construction - Phase II	Forklifts	3	8.00	89	0.20
Building Construction - Phase II	Generator Sets	1	8.00	84	0.74
Building Construction - Phase II	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phase II	Welders	1	8.00	46	0.45
Building Construction - Phase III	Cranes	1	7.00	231	0.29
Building Construction - Phase III	Forklifts	3	8.00	89	0.20
Building Construction - Phase III	Generator Sets	1	8.00	84	0.74
Building Construction - Phase III	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phase III	Welders	1	8.00	46	0.45
Architectural Coating - Phase I	Air Compressors	1	6.00	78	0.48
Architectural Coating - Phase II	Air Compressors	1	6.00	78	0.48
Paving - Phase III	Pavers	1	8.00	130	0.42
Paving - Phase III	Paving Equipment	2	6.00	132	0.36

Paving - Phase III	Paving Equipment	2	6.00	132	0.36

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	104.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation - Phase I	2	5.00	0.00	375.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading - Phase I	6	15.00	0.00	594.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phase I	9	27.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phase II	9	27.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phase III	9	27.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Phase I	1	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Phase II	1	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving - Phase III	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 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					1.1273	0.0000	1.1273	0.1707	0.0000	0.1707			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**1.1273**	**1.5513**	**2.6787**	**0.1707**	**1.4411**	**1.6118**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

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	0.0377	1.3155	0.2785	3.9900e-003	0.0909	4.0800e-003	0.0949	0.0249	3.9000e-003	0.0288		431.3606	431.3606	0.0288		432.0800
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	0.0633	0.0411	0.5651	1.6700e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		166.1105	166.1105	4.4700e-003		166.2222
Total	**0.1011**	**1.3566**	**0.8436**	**5.6600e-003**	**0.2585**	**5.3100e-003**	**0.2638**	**0.0694**	**5.0400e-003**	**0.0744**		**597.4711**	**597.4711**	**0.0333**		**598.3022**

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					
Fugitive Dust					0.4397	0.0000	0.4397	0.0666	0.0000	0.0666			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**0.4397**	**1.5513**	**1.9910**	**0.0666**	**1.4411**	**1.5077**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

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	0.0377	1.3155	0.2785	3.9900e-003	0.0909	4.0800e-003	0.0949	0.0249	3.9000e-003	0.0288		431.3606	431.3606	0.0288		432.0800
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	0.0633	0.0411	0.5651	1.6700e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		166.1105	166.1105	4.4700e-003		166.2222
Total	**0.1011**	**1.3566**	**0.8436**	**5.6600e-003**	**0.2585**	**5.3100e-003**	**0.2638**	**0.0694**	**5.0400e-003**	**0.0744**		**597.4711**	**597.4711**	**0.0333**		**598.3022**

3.3 Site Preparation - Phase I - 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					2.1436	0.0000	2.1436	0.2324	0.0000	0.2324			0.0000			0.0000
Off-Road	1.8589	21.4056	14.0094	0.0303		0.8328	0.8328		0.7661	0.7661		2,935.8230	2,935.8230	0.9495		2,959.5607
Total	**1.8589**	**21.4056**	**14.0094**	**0.0303**	**2.1436**	**0.8328**	**2.9764**	**0.2324**	**0.7661**	**0.9986**		**2,935.8230**	**2,935.8230**	**0.9495**		**2,959.5607**

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	0.1814	6.3247	1.3388	0.0192	0.4369	0.0196	0.4565	0.1197	0.0188	0.1385		2,073.8489	2,073.8489	0.1384		2,077.3078
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	0.0211	0.0137	0.1884	5.6000e-004	0.0559	4.1000e-004	0.0563	0.0148	3.8000e-004	0.0152		55.3702	55.3702	1.4900e-003		55.4074
Total	**0.2025**	**6.3384**	**1.5272**	**0.0197**	**0.4927**	**0.0200**	**0.5128**	**0.1345**	**0.0191**	**0.1537**		**2,129.2191**	**2,129.2191**	**0.1399**		**2,132.7152**

3.3 Site Preparation - Phase I - 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					0.8360	0.0000	0.8360	0.0907	0.0000	0.0907			0.0000			0.0000
Off-Road	1.8589	21.4056	14.0094	0.0303		0.8328	0.8328		0.7661	0.7661	0.0000	2,935.8230	2,935.8230	0.9495		2,959.5607
Total	**1.8589**	**21.4056**	**14.0094**	**0.0303**	**0.8360**	**0.8328**	**1.6688**	**0.0907**	**0.7661**	**0.8568**	**0.0000**	**2,935.8230**	**2,935.8230**	**0.9495**		**2,959.5607**

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	0.1814	6.3247	1.3388	0.0192	0.4369	0.0196	0.4565	0.1197	0.0188	0.1385		2,073.8489	2,073.8489	0.1384		2,077.3078
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	0.0211	0.0137	0.1884	5.6000e-004	0.0559	4.1000e-004	0.0563	0.0148	3.8000e-004	0.0152		55.3702	55.3702	1.4900e-003		55.4074
Total	**0.2025**	**6.3384**	**1.5272**	**0.0197**	**0.4927**	**0.0200**	**0.5128**	**0.1345**	**0.0191**	**0.1537**		**2,129.2191**	**2,129.2191**	**0.1399**		**2,132.7152**

3.4 Grading - Phase I - 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					6.5643	0.0000	6.5643	3.3693	0.0000	3.3693			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**6.5643**	**1.1599**	**7.7242**	**3.3693**	**1.0671**	**4.4364**		**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

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	0.0958	3.3395	0.7069	0.0101	0.2307	0.0104	0.2410	0.0632	9.9000e-003	0.0731		1,094.9922	1,094.9922	0.0731		1,096.8185
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	0.0633	0.0411	0.5651	1.6700e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		166.1105	166.1105	4.4700e-003		166.2222
Total	**0.1591**	**3.3805**	**1.2720**	**0.0118**	**0.3983**	**0.0116**	**0.4099**	**0.1077**	**0.0110**	**0.1187**		**1,261.1027**	**1,261.1027**	**0.0775**		**1,263.0407**

3.4 Grading - Phase I - 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					2.5601	0.0000	2.5601	1.3140	0.0000	1.3140			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
Total	**2.2903**	**24.7367**	**15.8575**	**0.0296**	**2.5601**	**1.1599**	**3.7200**	**1.3140**	**1.0671**	**2.3811**	**0.0000**	**2,871.9285**	**2,871.9285**	**0.9288**		**2,895.1495**

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	0.0958	3.3395	0.7069	0.0101	0.2307	0.0104	0.2410	0.0632	9.9000e-003	0.0731		1,094.9922	1,094.9922	0.0731		1,096.8185
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	0.0633	0.0411	0.5651	1.6700e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		166.1105	166.1105	4.4700e-003		166.2222
Total	**0.1591**	**3.3805**	**1.2720**	**0.0118**	**0.3983**	**0.0116**	**0.4099**	**0.1077**	**0.0110**	**0.1187**		**1,261.1027**	**1,261.1027**	**0.0775**		**1,263.0407**

3.5 Building Construction - Phase I - 2021

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0250	0.8584	0.2037	2.3000e-003	0.0576	1.7300e-003	0.0593	0.0166	1.6500e-003	0.0182		245.1946	245.1946	0.0148		245.5654
Worker	0.1140	0.0739	1.0172	3.0000e-003	0.3018	2.2200e-003	0.3040	0.0800	2.0500e-003	0.0821		298.9989	298.9989	8.0400e-003		299.1999
Total	**0.1390**	**0.9323**	**1.2209**	**5.3000e-003**	**0.3594**	**3.9500e-003**	**0.3634**	**0.0966**	**3.7000e-003**	**0.1003**		**544.1935**	**544.1935**	**0.0229**		**544.7653**

3.5 Building Construction - Phase I - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0250	0.8584	0.2037	2.3000e-003	0.0576	1.7300e-003	0.0593	0.0166	1.6500e-003	0.0182		245.1946	245.1946	0.0148		245.5654
Worker	0.1140	0.0739	1.0172	3.0000e-003	0.3018	2.2200e-003	0.3040	0.0800	2.0500e-003	0.0821		298.9989	298.9989	8.0400e-003		299.1999
Total	**0.1390**	**0.9323**	**1.2209**	**5.3000e-003**	**0.3594**	**3.9500e-003**	**0.3634**	**0.0966**	**3.7000e-003**	**0.1003**		**544.1935**	**544.1935**	**0.0229**		**544.7653**

3.6 Building Construction - Phase II - 2021

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0250	0.8584	0.2037	2.3000e-003	0.0576	1.7300e-003	0.0593	0.0166	1.6500e-003	0.0182		245.1946	245.1946	0.0148		245.5654
Worker	0.1140	0.0739	1.0172	3.0000e-003	0.3018	2.2200e-003	0.3040	0.0800	2.0500e-003	0.0821		298.9989	298.9989	8.0400e-003		299.1999
Total	**0.1390**	**0.9323**	**1.2209**	**5.3000e-003**	**0.3594**	**3.9500e-003**	**0.3634**	**0.0966**	**3.7000e-003**	**0.1003**		**544.1935**	**544.1935**	**0.0229**		**544.7653**

3.6 Building Construction - Phase II - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0250	0.8584	0.2037	2.3000e-003	0.0576	1.7300e-003	0.0593	0.0166	1.6500e-003	0.0182		245.1946	245.1946	0.0148		245.5654
Worker	0.1140	0.0739	1.0172	3.0000e-003	0.3018	2.2200e-003	0.3040	0.0800	2.0500e-003	0.0821		298.9989	298.9989	8.0400e-003		299.1999
Total	**0.1390**	**0.9323**	**1.2209**	**5.3000e-003**	**0.3594**	**3.9500e-003**	**0.3634**	**0.0966**	**3.7000e-003**	**0.1003**		**544.1935**	**544.1935**	**0.0229**		**544.7653**

3.7 Building Construction - Phase III - 2021

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0250	0.8584	0.2037	2.3000e-003	0.0576	1.7300e-003	0.0593	0.0166	1.6500e-003	0.0182		245.1946	245.1946	0.0148		245.5654
Worker	0.1140	0.0739	1.0172	3.0000e-003	0.3018	2.2200e-003	0.3040	0.0800	2.0500e-003	0.0821		298.9989	298.9989	8.0400e-003		299.1999
Total	**0.1390**	**0.9323**	**1.2209**	**5.3000e-003**	**0.3594**	**3.9500e-003**	**0.3634**	**0.0966**	**3.7000e-003**	**0.1003**		**544.1935**	**544.1935**	**0.0229**		**544.7653**

3.7 Building Construction - Phase III - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0250	0.8584	0.2037	2.3000e-003	0.0576	1.7300e-003	0.0593	0.0166	1.6500e-003	0.0182		245.1946	245.1946	0.0148		245.5654
Worker	0.1140	0.0739	1.0172	3.0000e-003	0.3018	2.2200e-003	0.3040	0.0800	2.0500e-003	0.0821		298.9989	298.9989	8.0400e-003		299.1999
Total	**0.1390**	**0.9323**	**1.2209**	**5.3000e-003**	**0.3594**	**3.9500e-003**	**0.3634**	**0.0966**	**3.7000e-003**	**0.1003**		**544.1935**	**544.1935**	**0.0229**		**544.7653**

3.7 Building Construction - Phase III - 2022

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0235	0.8148	0.1925	2.2700e-003	0.0576	1.5000e-003	0.0591	0.0166	1.4300e-003	0.0180		243.0532	243.0532	0.0143		243.4102
Worker	0.1069	0.0668	0.9406	2.8900e-003	0.3018	2.1600e-003	0.3040	0.0800	1.9900e-003	0.0820		288.2855	288.2855	7.2700e-003		288.4671
Total	**0.1304**	**0.8816**	**1.1331**	**5.1600e-003**	**0.3594**	**3.6600e-003**	**0.3631**	**0.0966**	**3.4200e-003**	**0.1000**		**531.3387**	**531.3387**	**0.0216**		**531.8773**

3.7 Building Construction - Phase III - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0235	0.8148	0.1925	2.2700e-003	0.0576	1.5000e-003	0.0591	0.0166	1.4300e-003	0.0180		243.0532	243.0532	0.0143		243.4102
Worker	0.1069	0.0668	0.9406	2.8900e-003	0.3018	2.1600e-003	0.3040	0.0800	1.9900e-003	0.0820		288.2855	288.2855	7.2700e-003		288.4671
Total	**0.1304**	**0.8816**	**1.1331**	**5.1600e-003**	**0.3594**	**3.6600e-003**	**0.3631**	**0.0966**	**3.4200e-003**	**0.1000**		**531.3387**	**531.3387**	**0.0216**		**531.8773**

3.8 Architectural Coating - Phase I - 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	27.7277					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	**27.9466**	**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	0.0211	0.0137	0.1884	5.6000e-004	0.0559	4.1000e-004	0.0563	0.0148	3.8000e-004	0.0152		55.3702	55.3702	1.4900e-003		55.4074
Total	**0.0211**	**0.0137**	**0.1884**	**5.6000e-004**	**0.0559**	**4.1000e-004**	**0.0563**	**0.0148**	**3.8000e-004**	**0.0152**		**55.3702**	**55.3702**	**1.4900e-003**		**55.4074**

3.8 Architectural Coating - Phase I - 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	27.7277					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	**27.9466**	**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	0.0211	0.0137	0.1884	5.6000e-004	0.0559	4.1000e-004	0.0563	0.0148	3.8000e-004	0.0152		55.3702	55.3702	1.4900e-003		55.4074
Total	**0.0211**	**0.0137**	**0.1884**	**5.6000e-004**	**0.0559**	**4.1000e-004**	**0.0563**	**0.0148**	**3.8000e-004**	**0.0152**		**55.3702**	**55.3702**	**1.4900e-003**		**55.4074**

3.9 Architectural Coating - Phase II - 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	27.7277					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	**27.9323**	**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	0.0198	0.0124	0.1742	5.4000e-004	0.0559	4.0000e-004	0.0563	0.0148	3.7000e-004	0.0152		53.3862	53.3862	1.3500e-003		53.4198
Total	**0.0198**	**0.0124**	**0.1742**	**5.4000e-004**	**0.0559**	**4.0000e-004**	**0.0563**	**0.0148**	**3.7000e-004**	**0.0152**		**53.3862**	**53.3862**	**1.3500e-003**		**53.4198**

3.9 Architectural Coating - Phase II - 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	27.7277					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	**27.9323**	**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	0.0198	0.0124	0.1742	5.4000e-004	0.0559	4.0000e-004	0.0563	0.0148	3.7000e-004	0.0152		53.3862	53.3862	1.3500e-003		53.4198
Total	**0.0198**	**0.0124**	**0.1742**	**5.4000e-004**	**0.0559**	**4.0000e-004**	**0.0563**	**0.0148**	**3.7000e-004**	**0.0152**		**53.3862**	**53.3862**	**1.3500e-003**		**53.4198**

3.10 Paving - Phase III - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7416	7.3119	10.5219	0.0169		0.3540	0.3540		0.3257	0.3257		1,638.6631	1,638.6631	0.5300		1,651.9125
Paving	0.1135					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8551**	**7.3119**	**10.5219**	**0.0169**		**0.3540**	**0.3540**		**0.3257**	**0.3257**		**1,638.6631**	**1,638.6631**	**0.5300**		**1,651.9125**

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	0.0515	0.0322	0.4529	1.3900e-003	0.1453	1.0400e-003	0.1464	0.0385	9.6000e-004	0.0395		138.8041	138.8041	3.5000e-003		138.8916
Total	**0.0515**	**0.0322**	**0.4529**	**1.3900e-003**	**0.1453**	**1.0400e-003**	**0.1464**	**0.0385**	**9.6000e-004**	**0.0395**		**138.8041**	**138.8041**	**3.5000e-003**		**138.8916**

3.10 Paving - Phase III - 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	0.7416	7.3119	10.5219	0.0169		0.3540	0.3540		0.3257	0.3257	0.0000	1,638.6631	1,638.6631	0.5300		1,651.9125
Paving	0.1135					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8551**	**7.3119**	**10.5219**	**0.0169**		**0.3540**	**0.3540**		**0.3257**	**0.3257**	**0.0000**	**1,638.6631**	**1,638.6631**	**0.5300**		**1,651.9125**

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	0.0515	0.0322	0.4529	1.3900e-003	0.1453	1.0400e-003	0.1464	0.0385	9.6000e-004	0.0395		138.8041	138.8041	3.5000e-003		138.8916
Total	**0.0515**	**0.0322**	**0.4529**	**1.3900e-003**	**0.1453**	**1.0400e-003**	**0.1464**	**0.0385**	**9.6000e-004**	**0.0395**		**138.8041**	**138.8041**	**3.5000e-003**		**138.8916**

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	0.4958	2.1704	6.7359	0.0266	2.2622	0.0181	2.2802	0.6052	0.0168	0.6221		2,711.6260	2,711.6260	0.1182		2,714.5812
Unmitigated	0.4958	2.1704	6.7359	0.0266	2.2622	0.0181	2.2802	0.6052	0.0168	0.6221		2,711.6260	2,711.6260	0.1182		2,714.5812

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	311.52	311.52	311.52	1,063,867	1,063,867
Total	311.52	311.52	311.52	1,063,867	1,063,867

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
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Other Asphalt Surfaces	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Parking Lot	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Single Family Housing	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0254	0.2166	0.0922	1.3800e-003		0.0175	0.0175		0.0175	0.0175		276.5325	276.5325	5.3000e-003	5.0700e-003	278.1757
NaturalGas Unmitigated	0.0254	0.2166	0.0922	1.3800e-003		0.0175	0.0175		0.0175	0.0175		276.5325	276.5325	5.3000e-003	5.0700e-003	278.1757

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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Single Family Housing	2350.53	0.0254	0.2166	0.0922	1.3800e-003		0.0175	0.0175		0.0175	0.0175		276.5325	276.5325	5.3000e-003	5.0700e-003	278.1757
Total		**0.0254**	**0.2166**	**0.0922**	**1.3800e-003**		**0.0175**	**0.0175**		**0.0175**	**0.0175**		**276.5325**	**276.5325**	**5.3000e-003**	**5.0700e-003**	**278.1757**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Single Family Housing	2.35053	0.0254	0.2166	0.0922	1.3800e-003		0.0175	0.0175		0.0175	0.0175		276.5325	276.5325	5.3000e-003	5.0700e-003	278.1757
Total		**0.0254**	**0.2166**	**0.0922**	**1.3800e-003**		**0.0175**	**0.0175**		**0.0175**	**0.0175**		**276.5325**	**276.5325**	**5.3000e-003**	**5.0700e-003**	**278.1757**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.4557	0.4967	2.9252	3.1100e-003		0.0527	0.0527		0.0527	0.0527	0.0000	598.9108	598.9108	0.0161	0.0109	602.5591
Unmitigated	1.4557	0.4967	2.9252	3.1100e-003		0.0527	0.0527		0.0527	0.0527	0.0000	598.9108	598.9108	0.0161	0.0109	602.5591

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	0.1053					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2136					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0545	0.4653	0.1980	2.9700e-003		0.0376	0.0376		0.0376	0.0376	0.0000	594.0000	594.0000	0.0114	0.0109	597.5298
Landscaping	0.0824	0.0314	2.7272	1.4000e-004		0.0151	0.0151		0.0151	0.0151		4.9108	4.9108	4.7400e-003		5.0292
Total	**1.4557**	**0.4967**	**2.9252**	**3.1100e-003**		**0.0527**	**0.0527**		**0.0527**	**0.0527**	**0.0000**	**598.9108**	**598.9108**	**0.0161**	**0.0109**	**602.5591**

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	0.1053					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2136					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0545	0.4653	0.1980	2.9700e-003		0.0376	0.0376		0.0376	0.0376	0.0000	594.0000	594.0000	0.0114	0.0109	597.5298
Landscaping	0.0824	0.0314	2.7272	1.4000e-004		0.0151	0.0151		0.0151	0.0151		4.9108	4.9108	4.7400e-003		5.0292
Total	**1.4557**	**0.4967**	**2.9252**	**3.1100e-003**		**0.0527**	**0.0527**		**0.0527**	**0.0527**	**0.0000**	**598.9108**	**598.9108**	**0.0161**	**0.0109**	**602.5591**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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

20-10059 875 Orange Grove Project

South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	21.94	1000sqft	0.50	21,939.00	0
Parking Lot	17.00	Space	0.15	6,800.00	0
City Park	0.27	Acre	0.27	6,476.00	0
Single Family Housing	33.00	Dwelling Unit	2.68	60,761.00	127

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - land use population based on service population calculation
land uses based on site plan provided by client
square feet for open space (city park used as proxy), parking lot, and road (other asphalt surfaces used as proxy) estimated using Google Earth
acreage adjsuted based on site plan provided by client

Construction Phase - demolition phase CalEEMod default
other construction phases provided by client and adjusted for 12 months

Off-road Equipment - 2 scrapers as per client

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading - material imported provided by client
material exported based on asphalt calculations

Demolition - estimated using Google Earth

Trips and VMT -

Vehicle Trips - City park = open space (no trips generated) provided by Ganddini Traffic Report.
Trip generation rates are from Trip Generation Manual, 10th Edition (Institute of Transportation Engineers, 2017) and are based on land use code 210 development located in "General Urban/Suburban" area. Remaining trips (RES H-W, etc.) rounded from default.

Woodstoves - assume no woodstoves/fireplaces

Area Coating - SCAQMD Rule 1113

Energy Use - Title 24 7% reduction

Construction Off-road Equipment Mitigation - water exposed area 3x per client

Energy Mitigation - solar PV calculation for renewable energy

Water Mitigation - reduce indoor water use by 20% per CalGREEN

Waste Mitigation - adjusted for 76 % diversion rate per CALRecycle 2015

20-10059 875 Orange Grove Project - South Coast AQMD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblConstructionPhase	NumDays	18.00	14.00
tblConstructionPhase	NumDays	18.00	14.00
tblConstructionPhase	NumDays	230.00	106.00
tblConstructionPhase	NumDays	230.00	106.00
tblConstructionPhase	NumDays	230.00	106.00
tblConstructionPhase	NumDays	8.00	45.00
tblConstructionPhase	NumDays	18.00	15.00
tblConstructionPhase	NumDays	5.00	15.00
tblEnergyUse	T24E	443.48	412.43
tblEnergyUse	T24NG	21,090.59	19,614.24
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberNoFireplace	3.30	33.00
tblFireplaces	NumberWood	1.65	0.00
tblGrading	MaterialExported	0.00	3,789.00
tblGrading	MaterialImported	0.00	4,750.00
tblLandUse	LandUseSquareFeet	21,940.00	21,939.00
tblLandUse	LandUseSquareFeet	11,761.20	6,476.00
tblLandUse	LandUseSquareFeet	59,400.00	60,761.00
tblLandUse	LotAcreage	10.71	2.68
tblLandUse	Population	94.00	127.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Site Preparation - Phase I
tblOffRoadEquipment	PhaseName		Grading - Phase I

tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	9.91	9.44
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	8.62	9.44
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.52	9.44
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.5753	3.6751	3.1421	6.1100e-003	0.2382	0.1794	0.4177	0.0963	0.1679	0.2642	0.0000	538.4010	538.4010	0.1165	0.0000	541.3145
2022	0.2456	0.4532	0.5056	9.1000e-004	9.7500e-003	0.0223	0.0321	2.6200e-003	0.0210	0.0236	0.0000	79.5773	79.5773	0.0173	0.0000	80.0088
Maximum	**0.5753**	**3.6751**	**3.1421**	**6.1100e-003**	**0.2382**	**0.1794**	**0.4177**	**0.0963**	**0.1679**	**0.2642**	**0.0000**	**538.4010**	**538.4010**	**0.1165**	**0.0000**	**541.3145**

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	0.5753	3.6751	3.1421	6.1100e-003	0.1315	0.1794	0.3109	0.0480	0.1679	0.2159	0.0000	538.4005	538.4005	0.1165	0.0000	541.3140
2022	0.2456	0.4532	0.5056	9.1000e-004	9.7500e-003	0.0223	0.0321	2.6200e-003	0.0210	0.0236	0.0000	79.5773	79.5773	0.0173	0.0000	80.0088
Maximum	**0.5753**	**3.6751**	**3.1421**	**6.1100e-003**	**0.1315**	**0.1794**	**0.3109**	**0.0480**	**0.1679**	**0.2159**	**0.0000**	**538.4005**	**538.4005**	**0.1165**	**0.0000**	**541.3140**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**43.06**	**0.00**	**23.74**	**48.88**	**0.00**	**16.80**	**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	3-1-2021	5-31-2021	1.3999	1.3999
2	6-1-2021	8-31-2021	2.9074	2.9074
3	9-1-2021	11-30-2021	2.7779	2.7779
4	12-1-2021	2-28-2022	0.8699	0.8699
5	3-1-2022	5-31-2022	0.1983	0.1983
		Highest	2.9074	2.9074

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	0.2517	9.7400e-003	0.3434	6.0000e-005		2.3600e-003	2.3600e-003		2.3600e-003	2.3600e-003	0.0000	7.2927	7.2927	6.7000e-004	1.2000e-004	7.3462
Energy	4.6300e-003	0.0395	0.0168	2.5000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	132.5210	132.5210	4.4600e-003	1.5800e-003	133.1034
Mobile	0.0838	0.4097	1.1616	4.6500e-003	0.4043	3.2900e-003	0.4075	0.1083	3.0600e-003	0.1114	0.0000	430.3715	430.3715	0.0194	0.0000	430.8554
Waste						0.0000	0.0000		0.0000	0.0000	10.5738	0.0000	10.5738	0.6249	0.0000	26.1961
Water						0.0000	0.0000		0.0000	0.0000	0.6821	14.8573	15.5394	0.0707	1.7800e-003	17.8370
Total	**0.3401**	**0.4590**	**1.5218**	**4.9600e-003**	**0.4043**	**8.8500e-003**	**0.4131**	**0.1083**	**8.6200e-003**	**0.1169**	**11.2559**	**585.0424**	**596.2984**	**0.7201**	**3.4800e-003**	**615.3381**

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	0.2517	9.7400e-003	0.3434	6.0000e-005		2.3600e-003	2.3600e-003		2.3600e-003	2.3600e-003	0.0000	7.2927	7.2927	6.7000e-004	1.2000e-004	7.3462
Energy	4.6300e-003	0.0395	0.0168	2.5000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	103.5743	103.5743	3.2600e-003	1.3300e-003	104.0531
Mobile	0.0838	0.4097	1.1616	4.6500e-003	0.4043	3.2900e-003	0.4075	0.1083	3.0600e-003	0.1114	0.0000	430.3715	430.3715	0.0194	0.0000	430.8554
Waste						0.0000	0.0000		0.0000	0.0000	7.8246	0.0000	7.8246	0.4624	0.0000	19.3851
Water						0.0000	0.0000		0.0000	0.0000	0.5457	13.0732	13.6189	0.0566	1.4400e-003	15.4613
Total	**0.3401**	**0.4590**	**1.5218**	**4.9600e-003**	**0.4043**	**8.8500e-003**	**0.4131**	**0.1083**	**8.6200e-003**	**0.1169**	**8.3703**	**554.3116**	**562.6819**	**0.5423**	**2.8900e-003**	**577.1010**

	ROG	NOx	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**	**25.64**	**5.25**	**5.64**	**24.69**	**16.95**	**6.21**

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2021	3/26/2021	5	20	
2	Site Preparation - Phase I	Site Preparation	3/27/2021	4/16/2021	5	15	
3	Grading - Phase I	Grading	4/19/2021	6/18/2021	5	45	
4	Building Construction - Phase I	Building Construction	5/15/2021	10/11/2021	5	106	
5	Building Construction - Phase II	Building Construction	7/15/2021	12/9/2021	5	106	
6	Building Construction - Phase III	Building Construction	10/12/2021	3/8/2022	5	106	
7	Architectural Coating - Phase I	Architectural Coating	10/12/2021	10/29/2021	5	14	
8	Architectural Coating - Phase II	Architectural Coating	2/17/2022	3/8/2022	5	14	
9	Paving - Phase III	Paving	3/9/2022	3/29/2022	5	15	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.65

Residential Indoor: 123,041; Residential Outdoor: 41,014; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,724 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation - Phase I	Scrapers	2	8.00	367	0.48
Grading - Phase I	Excavators	1	8.00	158	0.38
Grading - Phase I	Graders	1	8.00	187	0.41
Grading - Phase I	Rubber Tired Dozers	1	8.00	247	0.40

Grading - Phase I	Scrapers	0		367	0.48
Grading - Phase I	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction - Phase I	Cranes	1	7.00	231	0.29
Building Construction - Phase I	Forklifts	3	8.00	89	0.20
Building Construction - Phase I	Generator Sets	1	8.00	84	0.74
Building Construction - Phase I	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phase I	Welders	1	8.00	46	0.45
Building Construction - Phase II	Cranes	1	7.00	231	0.29
Building Construction - Phase II	Forklifts	3	8.00	89	0.20
Building Construction - Phase II	Generator Sets	1	8.00	84	0.74
Building Construction - Phase II	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phase II	Welders	1	8.00	46	0.45
Building Construction - Phase III	Cranes	1	7.00	231	0.29
Building Construction - Phase III	Forklifts	3	8.00	89	0.20
Building Construction - Phase III	Generator Sets	1	8.00	84	0.74
Building Construction - Phase III	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phase III	Welders	1	8.00	46	0.45
Architectural Coating - Phase I	Air Compressors	1	6.00	78	0.48
Architectural Coating - Phase II	Air Compressors	1	6.00	78	0.48
Paving - Phase III	Pavers	1	8.00	130	0.42
Paving - Phase III	Paving Equipment	2	6.00	132	0.36
Paving - Phase III	Paving Equipment	2	6.00	132	0.36

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	104.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation - Phase I	2	5.00	0.00	375.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading - Phase I	6	15.00	0.00	594.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phase I	9	27.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phase II	9	27.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phase III	9	27.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Phase I	1	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Phase II	1	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving - Phase III	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 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					0.0113	0.0000	0.0113	1.7100e-003	0.0000	1.7100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3144	0.2157	3.9000e-004		0.0155	0.0155		0.0144	0.0144	0.0000	34.0008	34.0008	9.5700e-003	0.0000	34.2400
Total	**0.0317**	**0.3144**	**0.2157**	**3.9000e-004**	**0.0113**	**0.0155**	**0.0268**	**1.7100e-003**	**0.0144**	**0.0161**	**0.0000**	**34.0008**	**34.0008**	**9.5700e-003**	**0.0000**	**34.2400**

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	3.8000e-004	0.0136	2.8700e-003	4.0000e-005	8.9000e-004	4.0000e-005	9.4000e-004	2.5000e-004	4.0000e-005	2.8000e-004	0.0000	3.8828	3.8828	2.7000e-004	0.0000	3.8895
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	6.3000e-004	4.6000e-004	5.2300e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4335	1.4335	4.0000e-005	0.0000	1.4345
Total	**1.0100e-003**	**0.0140**	**8.1000e-003**	**6.0000e-005**	**2.5400e-003**	**5.0000e-005**	**2.6000e-003**	**6.9000e-004**	**5.0000e-005**	**7.3000e-004**	**0.0000**	**5.3163**	**5.3163**	**3.1000e-004**	**0.0000**	**5.3239**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.4000e-003	0.0000	4.4000e-003	6.7000e-004	0.0000	6.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3144	0.2157	3.9000e-004		0.0155	0.0155		0.0144	0.0144	0.0000	34.0007	34.0007	9.5700e-003	0.0000	34.2400
Total	**0.0317**	**0.3144**	**0.2157**	**3.9000e-004**	**4.4000e-003**	**0.0155**	**0.0199**	**6.7000e-004**	**0.0144**	**0.0151**	**0.0000**	**34.0007**	**34.0007**	**9.5700e-003**	**0.0000**	**34.2400**

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	3.8000e-004	0.0136	2.8700e-003	4.0000e-005	8.9000e-004	4.0000e-005	9.4000e-004	2.5000e-004	4.0000e-005	2.8000e-004	0.0000	3.8828	3.8828	2.7000e-004	0.0000	3.8895
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	6.3000e-004	4.6000e-004	5.2300e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4335	1.4335	4.0000e-005	0.0000	1.4345
Total	**1.0100e-003**	**0.0140**	**8.1000e-003**	**6.0000e-005**	**2.5400e-003**	**5.0000e-005**	**2.6000e-003**	**6.9000e-004**	**5.0000e-005**	**7.3000e-004**	**0.0000**	**5.3163**	**5.3163**	**3.1000e-004**	**0.0000**	**5.3239**

3.3 Site Preparation - Phase I - 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					0.0161	0.0000	0.0161	1.7400e-003	0.0000	1.7400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0139	0.1605	0.1051	2.3000e-004		6.2500e-003	6.2500e-003		5.7500e-003	5.7500e-003	0.0000	19.9750	19.9750	6.4600e-003	0.0000	20.1365
Total	**0.0139**	**0.1605**	**0.1051**	**2.3000e-004**	**0.0161**	**6.2500e-003**	**0.0223**	**1.7400e-003**	**5.7500e-003**	**7.4900e-003**	**0.0000**	**19.9750**	**19.9750**	**6.4600e-003**	**0.0000**	**20.1365**

3.3 Site Preparation - Phase I - 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	1.3800e-003	0.0489	0.0104	1.4000e-004	3.2200e-003	1.5000e-004	3.3700e-003	8.8000e-004	1.4000e-004	1.0300e-003	0.0000	14.0006	14.0006	9.6000e-004	0.0000	14.0246
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	1.6000e-004	1.2000e-004	1.3100e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3584	0.3584	1.0000e-005	0.0000	0.3586
Total	**1.5400e-003**	**0.0490**	**0.0117**	**1.4000e-004**	**3.6300e-003**	**1.5000e-004**	**3.7800e-003**	**9.9000e-004**	**1.4000e-004**	**1.1400e-003**	**0.0000**	**14.3590**	**14.3590**	**9.7000e-004**	**0.0000**	**14.3832**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.2700e-003	0.0000	6.2700e-003	6.8000e-004	0.0000	6.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0139	0.1605	0.1051	2.3000e-004		6.2500e-003	6.2500e-003		5.7500e-003	5.7500e-003	0.0000	19.9750	19.9750	6.4600e-003	0.0000	20.1365
Total	**0.0139**	**0.1605**	**0.1051**	**2.3000e-004**	**6.2700e-003**	**6.2500e-003**	**0.0125**	**6.8000e-004**	**5.7500e-003**	**6.4300e-003**	**0.0000**	**19.9750**	**19.9750**	**6.4600e-003**	**0.0000**	**20.1365**

3.3 Site Preparation - Phase I - 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	1.3800e-003	0.0489	0.0104	1.4000e-004	3.2200e-003	1.5000e-004	3.3700e-003	8.8000e-004	1.4000e-004	1.0300e-003	0.0000	14.0006	14.0006	9.6000e-004	0.0000	14.0246
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	1.6000e-004	1.2000e-004	1.3100e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3584	0.3584	1.0000e-005	0.0000	0.3586
Total	**1.5400e-003**	**0.0490**	**0.0117**	**1.4000e-004**	**3.6300e-003**	**1.5000e-004**	**3.7800e-003**	**9.9000e-004**	**1.4000e-004**	**1.1400e-003**	**0.0000**	**14.3590**	**14.3590**	**9.7000e-004**	**0.0000**	**14.3832**

3.4 Grading - Phase I - 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					0.1477	0.0000	0.1477	0.0758	0.0000	0.0758	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0515	0.5566	0.3568	6.7000e-004		0.0261	0.0261		0.0240	0.0240	0.0000	58.6208	58.6208	0.0190	0.0000	59.0948
Total	**0.0515**	**0.5566**	**0.3568**	**6.7000e-004**	**0.1477**	**0.0261**	**0.1738**	**0.0758**	**0.0240**	**0.0998**	**0.0000**	**58.6208**	**58.6208**	**0.0190**	**0.0000**	**59.0948**

3.4 Grading - Phase I - 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	2.1800e-003	0.0774	0.0164	2.3000e-004	5.1100e-003	2.3000e-004	5.3400e-003	1.4000e-003	2.2000e-004	1.6300e-003	0.0000	22.1770	22.1770	1.5200e-003	0.0000	22.2149
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	1.4100e-003	1.0400e-003	0.0118	4.0000e-005	3.7000e-003	3.0000e-005	3.7300e-003	9.8000e-004	3.0000e-005	1.0100e-003	0.0000	3.2254	3.2254	9.0000e-005	0.0000	3.2275
Total	**3.5900e-003**	**0.0784**	**0.0282**	**2.7000e-004**	**8.8100e-003**	**2.6000e-004**	**9.0700e-003**	**2.3800e-003**	**2.5000e-004**	**2.6400e-003**	**0.0000**	**25.4023**	**25.4023**	**1.6100e-003**	**0.0000**	**25.4425**

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					0.0576	0.0000	0.0576	0.0296	0.0000	0.0296	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0515	0.5566	0.3568	6.7000e-004		0.0261	0.0261		0.0240	0.0240	0.0000	58.6208	58.6208	0.0190	0.0000	59.0947
Total	**0.0515**	**0.5566**	**0.3568**	**6.7000e-004**	**0.0576**	**0.0261**	**0.0837**	**0.0296**	**0.0240**	**0.0536**	**0.0000**	**58.6208**	**58.6208**	**0.0190**	**0.0000**	**59.0947**

3.4 Grading - Phase I - 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	2.1800e-003	0.0774	0.0164	2.3000e-004	5.1100e-003	2.3000e-004	5.3400e-003	1.4000e-003	2.2000e-004	1.6300e-003	0.0000	22.1770	22.1770	1.5200e-003	0.0000	22.2149
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	1.4100e-003	1.0400e-003	0.0118	4.0000e-005	3.7000e-003	3.0000e-005	3.7300e-003	9.8000e-004	3.0000e-005	1.0100e-003	0.0000	3.2254	3.2254	9.0000e-005	0.0000	3.2275
Total	**3.5900e-003**	**0.0784**	**0.0282**	**2.7000e-004**	**8.8100e-003**	**2.6000e-004**	**9.0700e-003**	**2.3800e-003**	**2.5000e-004**	**2.6400e-003**	**0.0000**	**25.4023**	**25.4023**	**1.6100e-003**	**0.0000**	**25.4425**

3.5 Building Construction - Phase I - 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	0.1008	0.9239	0.8785	1.4300e-003		0.0508	0.0508		0.0478	0.0478	0.0000	122.7678	122.7678	0.0296	0.0000	123.5082
Total	**0.1008**	**0.9239**	**0.8785**	**1.4300e-003**		**0.0508**	**0.0508**		**0.0478**	**0.0478**	**0.0000**	**122.7678**	**122.7678**	**0.0296**	**0.0000**	**123.5082**

3.5 Building Construction - Phase I - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3600e-003	0.0462	0.0114	1.2000e-004	3.0100e-003	9.0000e-005	3.1000e-003	8.7000e-004	9.0000e-005	9.6000e-004	0.0000	11.6458	11.6458	7.4000e-004	0.0000	11.6642
Worker	5.9600e-003	4.4100e-003	0.0499	1.5000e-004	0.0157	1.2000e-004	0.0158	4.1700e-003	1.1000e-004	4.2800e-003	0.0000	13.6755	13.6755	3.7000e-004	0.0000	13.6847
Total	**7.3200e-003**	**0.0506**	**0.0613**	**2.7000e-004**	**0.0187**	**2.1000e-004**	**0.0189**	**5.0400e-003**	**2.0000e-004**	**5.2400e-003**	**0.0000**	**25.3213**	**25.3213**	**1.1100e-003**	**0.0000**	**25.3489**

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	0.1008	0.9239	0.8785	1.4300e-003		0.0508	0.0508		0.0478	0.0478	0.0000	122.7676	122.7676	0.0296	0.0000	123.5081
Total	**0.1008**	**0.9239**	**0.8785**	**1.4300e-003**		**0.0508**	**0.0508**		**0.0478**	**0.0478**	**0.0000**	**122.7676**	**122.7676**	**0.0296**	**0.0000**	**123.5081**

3.5 Building Construction - Phase I - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3600e-003	0.0462	0.0114	1.2000e-004	3.0100e-003	9.0000e-005	3.1000e-003	8.7000e-004	9.0000e-005	9.6000e-004	0.0000	11.6458	11.6458	7.4000e-004	0.0000	11.6642
Worker	5.9600e-003	4.4100e-003	0.0499	1.5000e-004	0.0157	1.2000e-004	0.0158	4.1700e-003	1.1000e-004	4.2800e-003	0.0000	13.6755	13.6755	3.7000e-004	0.0000	13.6847
Total	**7.3200e-003**	**0.0506**	**0.0613**	**2.7000e-004**	**0.0187**	**2.1000e-004**	**0.0189**	**5.0400e-003**	**2.0000e-004**	**5.2400e-003**	**0.0000**	**25.3213**	**25.3213**	**1.1100e-003**	**0.0000**	**25.3489**

3.6 Building Construction - Phase II - 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	0.1008	0.9239	0.8785	1.4300e-003		0.0508	0.0508		0.0478	0.0478	0.0000	122.7678	122.7678	0.0296	0.0000	123.5082
Total	**0.1008**	**0.9239**	**0.8785**	**1.4300e-003**		**0.0508**	**0.0508**		**0.0478**	**0.0478**	**0.0000**	**122.7678**	**122.7678**	**0.0296**	**0.0000**	**123.5082**

3.6 Building Construction - Phase II - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3600e-003	0.0462	0.0114	1.2000e-004	3.0100e-003	9.0000e-005	3.1000e-003	8.7000e-004	9.0000e-005	9.6000e-004	0.0000	11.6458	11.6458	7.4000e-004	0.0000	11.6642
Worker	5.9600e-003	4.4100e-003	0.0499	1.5000e-004	0.0157	1.2000e-004	0.0158	4.1700e-003	1.1000e-004	4.2800e-003	0.0000	13.6755	13.6755	3.7000e-004	0.0000	13.6847
Total	**7.3200e-003**	**0.0506**	**0.0613**	**2.7000e-004**	**0.0187**	**2.1000e-004**	**0.0189**	**5.0400e-003**	**2.0000e-004**	**5.2400e-003**	**0.0000**	**25.3213**	**25.3213**	**1.1100e-003**	**0.0000**	**25.3489**

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	0.1008	0.9239	0.8785	1.4300e-003		0.0508	0.0508		0.0478	0.0478	0.0000	122.7676	122.7676	0.0296	0.0000	123.5081
Total	**0.1008**	**0.9239**	**0.8785**	**1.4300e-003**		**0.0508**	**0.0508**		**0.0478**	**0.0478**	**0.0000**	**122.7676**	**122.7676**	**0.0296**	**0.0000**	**123.5081**

3.6 Building Construction - Phase II - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3600e-003	0.0462	0.0114	1.2000e-004	3.0100e-003	9.0000e-005	3.1000e-003	8.7000e-004	9.0000e-005	9.6000e-004	0.0000	11.6458	11.6458	7.4000e-004	0.0000	11.6642
Worker	5.9600e-003	4.4100e-003	0.0499	1.5000e-004	0.0157	1.2000e-004	0.0158	4.1700e-003	1.1000e-004	4.2800e-003	0.0000	13.6755	13.6755	3.7000e-004	0.0000	13.6847
Total	**7.3200e-003**	**0.0506**	**0.0613**	**2.7000e-004**	**0.0187**	**2.1000e-004**	**0.0189**	**5.0400e-003**	**2.0000e-004**	**5.2400e-003**	**0.0000**	**25.3213**	**25.3213**	**1.1100e-003**	**0.0000**	**25.3489**

3.7 Building Construction - Phase III - 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	0.0561	0.5143	0.4890	7.9000e-004		0.0283	0.0283		0.0266	0.0266	0.0000	68.3330	68.3330	0.0165	0.0000	68.7451
Total	**0.0561**	**0.5143**	**0.4890**	**7.9000e-004**		**0.0283**	**0.0283**		**0.0266**	**0.0266**	**0.0000**	**68.3330**	**68.3330**	**0.0165**	**0.0000**	**68.7451**

3.7 Building Construction - Phase III - 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	7.6000e-004	0.0257	6.3700e-003	7.0000e-005	1.6700e-003	5.0000e-005	1.7300e-003	4.8000e-004	5.0000e-005	5.3000e-004	0.0000	6.4821	6.4821	4.1000e-004	0.0000	6.4923
Worker	3.3200e-003	2.4500e-003	0.0278	8.0000e-005	8.7400e-003	7.0000e-005	8.8000e-003	2.3200e-003	6.0000e-005	2.3800e-003	0.0000	7.6118	7.6118	2.0000e-004	0.0000	7.6169
Total	**4.0800e-003**	**0.0281**	**0.0341**	**1.5000e-004**	**0.0104**	**1.2000e-004**	**0.0105**	**2.8000e-003**	**1.1000e-004**	**2.9100e-003**	**0.0000**	**14.0939**	**14.0939**	**6.1000e-004**	**0.0000**	**14.1093**

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	0.0561	0.5143	0.4890	7.9000e-004		0.0283	0.0283		0.0266	0.0266	0.0000	68.3329	68.3329	0.0165	0.0000	68.7451
Total	**0.0561**	**0.5143**	**0.4890**	**7.9000e-004**		**0.0283**	**0.0283**		**0.0266**	**0.0266**	**0.0000**	**68.3329**	**68.3329**	**0.0165**	**0.0000**	**68.7451**

3.7 Building Construction - Phase III - 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	7.6000e-004	0.0257	6.3700e-003	7.0000e-005	1.6700e-003	5.0000e-005	1.7300e-003	4.8000e-004	5.0000e-005	5.3000e-004	0.0000	6.4821	6.4821	4.1000e-004	0.0000	6.4923
Worker	3.3200e-003	2.4500e-003	0.0278	8.0000e-005	8.7400e-003	7.0000e-005	8.8000e-003	2.3200e-003	6.0000e-005	2.3800e-003	0.0000	7.6118	7.6118	2.0000e-004	0.0000	7.6169
Total	**4.0800e-003**	**0.0281**	**0.0341**	**1.5000e-004**	**0.0104**	**1.2000e-004**	**0.0105**	**2.8000e-003**	**1.1000e-004**	**2.9100e-003**	**0.0000**	**14.0939**	**14.0939**	**6.1000e-004**	**0.0000**	**14.1093**

3.7 Building Construction - Phase III - 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	0.0401	0.3670	0.3845	6.3000e-004		0.0190	0.0190		0.0179	0.0179	0.0000	54.4554	54.4554	0.0131	0.0000	54.7816
Total	**0.0401**	**0.3670**	**0.3845**	**6.3000e-004**		**0.0190**	**0.0190**		**0.0179**	**0.0179**	**0.0000**	**54.4554**	**54.4554**	**0.0131**	**0.0000**	**54.7816**

3.7 Building Construction - Phase III - 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	5.6000e-004	0.0194	4.8000e-003	5.0000e-005	1.3300e-003	4.0000e-005	1.3700e-003	3.8000e-004	3.0000e-005	4.2000e-004	0.0000	5.1182	5.1182	3.1000e-004	0.0000	5.1261
Worker	2.4800e-003	1.7700e-003	0.0204	6.0000e-005	6.9600e-003	5.0000e-005	7.0100e-003	1.8500e-003	5.0000e-005	1.9000e-003	0.0000	5.8463	5.8463	1.5000e-004	0.0000	5.8499
Total	**3.0400e-003**	**0.0212**	**0.0252**	**1.1000e-004**	**8.2900e-003**	**9.0000e-005**	**8.3800e-003**	**2.2300e-003**	**8.0000e-005**	**2.3200e-003**	**0.0000**	**10.9645**	**10.9645**	**4.6000e-004**	**0.0000**	**10.9760**

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	0.0401	0.3670	0.3845	6.3000e-004		0.0190	0.0190		0.0179	0.0179	0.0000	54.4554	54.4554	0.0131	0.0000	54.7815
Total	**0.0401**	**0.3670**	**0.3845**	**6.3000e-004**		**0.0190**	**0.0190**		**0.0179**	**0.0179**	**0.0000**	**54.4554**	**54.4554**	**0.0131**	**0.0000**	**54.7815**

3.7 Building Construction - Phase III - 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	5.6000e-004	0.0194	4.8000e-003	5.0000e-005	1.3300e-003	4.0000e-005	1.3700e-003	3.8000e-004	3.0000e-005	4.2000e-004	0.0000	5.1182	5.1182	3.1000e-004	0.0000	5.1261
Worker	2.4800e-003	1.7700e-003	0.0204	6.0000e-005	6.9600e-003	5.0000e-005	7.0100e-003	1.8500e-003	5.0000e-005	1.9000e-003	0.0000	5.8463	5.8463	1.5000e-004	0.0000	5.8499
Total	**3.0400e-003**	**0.0212**	**0.0252**	**1.1000e-004**	**8.2900e-003**	**9.0000e-005**	**8.3800e-003**	**2.2300e-003**	**8.0000e-005**	**2.3200e-003**	**0.0000**	**10.9645**	**10.9645**	**4.6000e-004**	**0.0000**	**10.9760**

3.8 Architectural Coating - Phase I - 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	0.1941					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5300e-003	0.0107	0.0127	2.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	1.7873	1.7873	1.2000e-004	0.0000	1.7903
Total	**0.1956**	**0.0107**	**0.0127**	**2.0000e-005**		**6.6000e-004**	**6.6000e-004**		**6.6000e-004**	**6.6000e-004**	**0.0000**	**1.7873**	**1.7873**	**1.2000e-004**	**0.0000**	**1.7903**

3.8 Architectural Coating - Phase I - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.1000e-004	1.2200e-003	0.0000	3.8000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3345	0.3345	1.0000e-005	0.0000	0.3347
Total	**1.5000e-004**	**1.1000e-004**	**1.2200e-003**	**0.0000**	**3.8000e-004**	**0.0000**	**3.9000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3345**	**0.3345**	**1.0000e-005**	**0.0000**	**0.3347**

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	0.1941					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5300e-003	0.0107	0.0127	2.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	1.7873	1.7873	1.2000e-004	0.0000	1.7903
Total	**0.1956**	**0.0107**	**0.0127**	**2.0000e-005**		**6.6000e-004**	**6.6000e-004**		**6.6000e-004**	**6.6000e-004**	**0.0000**	**1.7873**	**1.7873**	**1.2000e-004**	**0.0000**	**1.7903**

3.8 Architectural Coating - Phase I - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.1000e-004	1.2200e-003	0.0000	3.8000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3345	0.3345	1.0000e-005	0.0000	0.3347
Total	**1.5000e-004**	**1.1000e-004**	**1.2200e-003**	**0.0000**	**3.8000e-004**	**0.0000**	**3.9000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3345**	**0.3345**	**1.0000e-005**	**0.0000**	**0.3347**

3.9 Architectural Coating - Phase II - 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	0.1941					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4300e-003	9.8600e-003	0.0127	2.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	1.7873	1.7873	1.2000e-004	0.0000	1.7902
Total	**0.1955**	**9.8600e-003**	**0.0127**	**2.0000e-005**		**5.7000e-004**	**5.7000e-004**		**5.7000e-004**	**5.7000e-004**	**0.0000**	**1.7873**	**1.7873**	**1.2000e-004**	**0.0000**	**1.7902**

3.9 Architectural Coating - Phase II - 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	1.4000e-004	1.0000e-004	1.1300e-003	0.0000	3.8000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3225	0.3225	1.0000e-005	0.0000	0.3227
Total	**1.4000e-004**	**1.0000e-004**	**1.1300e-003**	**0.0000**	**3.8000e-004**	**0.0000**	**3.9000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3225**	**0.3225**	**1.0000e-005**	**0.0000**	**0.3227**

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	0.1941					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4300e-003	9.8600e-003	0.0127	2.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	1.7873	1.7873	1.2000e-004	0.0000	1.7902
Total	**0.1955**	**9.8600e-003**	**0.0127**	**2.0000e-005**		**5.7000e-004**	**5.7000e-004**		**5.7000e-004**	**5.7000e-004**	**0.0000**	**1.7873**	**1.7873**	**1.2000e-004**	**0.0000**	**1.7902**

3.9 Architectural Coating - Phase II - 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	1.4000e-004	1.0000e-004	1.1300e-003	0.0000	3.8000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3225	0.3225	1.0000e-005	0.0000	0.3227
Total	**1.4000e-004**	**1.0000e-004**	**1.1300e-003**	**0.0000**	**3.8000e-004**	**0.0000**	**3.9000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3225**	**0.3225**	**1.0000e-005**	**0.0000**	**0.3227**

3.10 Paving - Phase III - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.5600e-003	0.0548	0.0789	1.3000e-004		2.6600e-003	2.6600e-003		2.4400e-003	2.4400e-003	0.0000	11.1493	11.1493	3.6100e-003	0.0000	11.2394
Paving	8.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.4100e-003**	**0.0548**	**0.0789**	**1.3000e-004**		**2.6600e-003**	**2.6600e-003**		**2.4400e-003**	**2.4400e-003**	**0.0000**	**11.1493**	**11.1493**	**3.6100e-003**	**0.0000**	**11.2394**

3.10 Paving - Phase III - 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	3.8000e-004	2.7000e-004	3.1400e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0800e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.8984	0.8984	2.0000e-005	0.0000	0.8989
Total	**3.8000e-004**	**2.7000e-004**	**3.1400e-003**	**1.0000e-005**	**1.0700e-003**	**1.0000e-005**	**1.0800e-003**	**2.8000e-004**	**1.0000e-005**	**2.9000e-004**	**0.0000**	**0.8984**	**0.8984**	**2.0000e-005**	**0.0000**	**0.8989**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.5600e-003	0.0548	0.0789	1.3000e-004		2.6600e-003	2.6600e-003		2.4400e-003	2.4400e-003	0.0000	11.1493	11.1493	3.6100e-003	0.0000	11.2394
Paving	8.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.4100e-003**	**0.0548**	**0.0789**	**1.3000e-004**		**2.6600e-003**	**2.6600e-003**		**2.4400e-003**	**2.4400e-003**	**0.0000**	**11.1493**	**11.1493**	**3.6100e-003**	**0.0000**	**11.2394**

3.10 Paving - Phase III - 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	3.8000e-004	2.7000e-004	3.1400e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0800e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.8984	0.8984	2.0000e-005	0.0000	0.8989
Total	**3.8000e-004**	**2.7000e-004**	**3.1400e-003**	**1.0000e-005**	**1.0700e-003**	**1.0000e-005**	**1.0800e-003**	**2.8000e-004**	**1.0000e-005**	**2.9000e-004**	**0.0000**	**0.8984**	**0.8984**	**2.0000e-005**	**0.0000**	**0.8989**

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	0.0838	0.4097	1.1616	4.6500e-003	0.4043	3.2900e-003	0.4075	0.1083	3.0600e-003	0.1114	0.0000	430.3715	430.3715	0.0194	0.0000	430.8554
Unmitigated	0.0838	0.4097	1.1616	4.6500e-003	0.4043	3.2900e-003	0.4075	0.1083	3.0600e-003	0.1114	0.0000	430.3715	430.3715	0.0194	0.0000	430.8554

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	311.52	311.52	311.52	1,063,867	1,063,867
Total	311.52	311.52	311.52	1,063,867	1,063,867

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
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Other Asphalt Surfaces	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Parking Lot	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Single Family Housing	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	57.7912	57.7912	2.3900e-003	4.9000e-004	57.9980
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	86.7380	86.7380	3.5800e-003	7.4000e-004	87.0483
NaturalGas Mitigated	4.6300e-003	0.0395	0.0168	2.5000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	45.7831	45.7831	8.8000e-004	8.4000e-004	46.0551
NaturalGas Unmitigated	4.6300e-003	0.0395	0.0168	2.5000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	45.7831	45.7831	8.8000e-004	8.4000e-004	46.0551

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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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
Single Family Housing	857942	4.6300e-003	0.0395	0.0168	2.5000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	45.7831	45.7831	8.8000e-004	8.4000e-004	46.0551
Total		**4.6300e-003**	**0.0395**	**0.0168**	**2.5000e-004**		**3.2000e-003**	**3.2000e-003**		**3.2000e-003**	**3.2000e-003**	**0.0000**	**45.7831**	**45.7831**	**8.8000e-004**	**8.4000e-004**	**46.0551**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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
Single Family Housing	857942	4.6300e-003	0.0395	0.0168	2.5000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	45.7831	45.7831	8.8000e-004	8.4000e-004	46.0551
Total		**4.6300e-003**	**0.0395**	**0.0168**	**2.5000e-004**		**3.2000e-003**	**3.2000e-003**		**3.2000e-003**	**3.2000e-003**	**0.0000**	**45.7831**	**45.7831**	**8.8000e-004**	**8.4000e-004**	**46.0551**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	2380	0.7583	3.0000e-005	1.0000e-005	0.7610
Single Family Housing	269849	85.9797	3.5500e-003	7.3000e-004	86.2872
Total		**86.7380**	**3.5800e-003**	**7.4000e-004**	**87.0483**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	-22712.5	-7.2367	-0.0003	-0.0001	-7.2626
Other Asphalt Surfaces	-22712.5	-7.2367	-0.0003	-0.0001	-7.2626
Parking Lot	-20332.5	-6.4784	-0.0003	-0.0001	-6.5016
Single Family Housing	247136	78.7430	3.2500e-003	6.7000e-004	79.0247
Total		**57.7912**	**2.3800e-003**	**4.9000e-004**	**57.9980**

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	0.2517	9.7400e-003	0.3434	6.0000e-005		2.3600e-003	2.3600e-003		2.3600e-003	2.3600e-003	0.0000	7.2927	7.2927	6.7000e-004	1.2000e-004	7.3462
Unmitigated	0.2517	9.7400e-003	0.3434	6.0000e-005		2.3600e-003	2.3600e-003		2.3600e-003	2.3600e-003	0.0000	7.2927	7.2927	6.7000e-004	1.2000e-004	7.3462

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	0.0192					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2215					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.8000e-004	5.8200e-003	2.4800e-003	4.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	6.7359	6.7359	1.3000e-004	1.2000e-004	6.7759
Landscaping	0.0103	3.9300e-003	0.3409	2.0000e-005		1.8900e-003	1.8900e-003		1.8900e-003	1.8900e-003	0.0000	0.5569	0.5569	5.4000e-004	0.0000	0.5703
Total	**0.2517**	**9.7500e-003**	**0.3434**	**6.0000e-005**		**2.3600e-003**	**2.3600e-003**		**2.3600e-003**	**2.3600e-003**	**0.0000**	**7.2927**	**7.2927**	**6.7000e-004**	**1.2000e-004**	**7.3462**

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	0.0192					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2215					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.8000e-004	5.8200e-003	2.4800e-003	4.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	6.7359	6.7359	1.3000e-004	1.2000e-004	6.7759
Landscaping	0.0103	3.9300e-003	0.3409	2.0000e-005		1.8900e-003	1.8900e-003		1.8900e-003	1.8900e-003	0.0000	0.5569	0.5569	5.4000e-004	0.0000	0.5703
Total	**0.2517**	**9.7500e-003**	**0.3434**	**6.0000e-005**		**2.3600e-003**	**2.3600e-003**		**2.3600e-003**	**2.3600e-003**	**0.0000**	**7.2927**	**7.2927**	**6.7000e-004**	**1.2000e-004**	**7.3462**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	13.6189	0.0566	1.4400e-003	15.4613
Unmitigated	15.5394	0.0707	1.7800e-003	17.8370

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.3217	1.1388	5.0000e-005	1.0000e-005	1.1429
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.15008 / 1.35549	14.4006	0.0706	1.7700e-003	16.6942
Total		**15.5394**	**0.0707**	**1.7800e-003**	**17.8370**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.3217	1.1388	5.0000e-005	1.0000e-005	1.1429
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.72007 / 1.35549	12.4801	0.0565	1.4300e-003	14.3184
Total		**13.6189**	**0.0566**	**1.4400e-003**	**15.4613**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.8246	0.4624	0.0000	19.3851
Unmitigated	10.5738	0.6249	0.0000	26.1961

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	52.07	10.5697	0.6247	0.0000	26.1861
Total		**10.5738**	**0.6249**	**0.0000**	**26.1961**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.0148	3.0000e-003	1.8000e-004	0.0000	7.4400e-003
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	38.5318	7.8216	0.4622	0.0000	19.3777
Total		**7.8246**	**0.4624**	**0.0000**	**19.3851**

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

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	21.94	1000sqft	0.50	21,939.00	0
Parking Lot	17.00	Space	0.15	6,800.00	0
City Park	0.27	Acre	0.27	6,476.00	0
Single Family Housing	33.00	Dwelling Unit	2.68	60,761.00	127

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	9			**Operational Year**	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	489.42	**CH4 Intensity (lb/MWhr)**	0.02	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Utilities adjusted for 2023 RPS

Land Use - land use population based on service population calculation
land uses based on site plan provided by client
square feet for open space (city park used as proxy), parking lot, and road (other asphalt surfaces used as proxy) estimated using Google Earth
acreage adjsuted based on site plan provided by client

Construction Phase - demolition phase CalEEMod default
other construction phases provided by client and adjusted for 12 months

Off-road Equipment -

Grading - material imported provided by client
material exported based on asphalt calculations

Off-road Equipment - 2 scrapers as per client

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Demolition - estimated using Google Earth

Trips and VMT -

Vehicle Trips - City park = open space (no trips generated) provided by Ganddini Traffic Report.
Trip generation rates are from Trip Generation Manual, 10th Edition (Institute of Transportation Engineers, 2017) and are based on land use code 210 development located in "General Urban/Suburban" area. Remaining trips (RES H-W, etc.) rounded from default

Woodstoves - assume no woodstoves/fireplaces

Area Coating - SCAQMD Rule 1113

Energy Use - Title 24 7% reduction

Construction Off-road Equipment Mitigation - water exposed area 3x per client

Energy Mitigation - solar PV calculation for renewable energy

Water Mitigation - reduce indoor water use by 20% per CalGREEN

Waste Mitigation - adjusted for 76 % diversion rate per CALRecycle 2015

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Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblConstructionPhase	NumDays	18.00	14.00
tblConstructionPhase	NumDays	18.00	14.00
tblConstructionPhase	NumDays	230.00	106.00
tblConstructionPhase	NumDays	230.00	106.00
tblConstructionPhase	NumDays	230.00	106.00
tblConstructionPhase	NumDays	8.00	45.00
tblConstructionPhase	NumDays	18.00	15.00
tblConstructionPhase	NumDays	5.00	15.00
tblEnergyUse	T24E	443.48	412.43
tblEnergyUse	T24NG	21,090.59	19,614.24
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberNoFireplace	3.30	33.00
tblFireplaces	NumberWood	1.65	0.00
tblGrading	MaterialExported	0.00	3,789.00
tblGrading	MaterialImported	0.00	4,750.00
tblLandUse	LandUseSquareFeet	21,940.00	21,939.00
tblLandUse	LandUseSquareFeet	11,761.20	6,476.00
tblLandUse	LandUseSquareFeet	59,400.00	60,761.00
tblLandUse	LotAcreage	10.71	2.68
tblLandUse	Population	94.00	127.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Site Preparation - Phase I
tblOffRoadEquipment	PhaseName		Grading - Phase I

tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	702.44	489.42
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	9.91	9.44
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	8.62	9.44
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.52	9.44
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.5753	3.6751	3.1421	6.1100e-003	0.2382	0.1794	0.4177	0.0963	0.1679	0.2642	0.0000	538.4010	538.4010	0.1165	0.0000	541.3145
2022	0.2456	0.4532	0.5056	9.1000e-004	9.7500e-003	0.0223	0.0321	2.6200e-003	0.0210	0.0236	0.0000	79.5773	79.5773	0.0173	0.0000	80.0088
Maximum	**0.5753**	**3.6751**	**3.1421**	**6.1100e-003**	**0.2382**	**0.1794**	**0.4177**	**0.0963**	**0.1679**	**0.2642**	**0.0000**	**538.4010**	**538.4010**	**0.1165**	**0.0000**	**541.3145**

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	0.5753	3.6751	3.1421	6.1100e-003	0.1315	0.1794	0.3109	0.0480	0.1679	0.2159	0.0000	538.4005	538.4005	0.1165	0.0000	541.3140
2022	0.2456	0.4532	0.5056	9.1000e-004	9.7500e-003	0.0223	0.0321	2.6200e-003	0.0210	0.0236	0.0000	79.5773	79.5773	0.0173	0.0000	80.0088
Maximum	**0.5753**	**3.6751**	**3.1421**	**6.1100e-003**	**0.1315**	**0.1794**	**0.3109**	**0.0480**	**0.1679**	**0.2159**	**0.0000**	**538.4005**	**538.4005**	**0.1165**	**0.0000**	**541.3140**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**43.06**	**0.00**	**23.74**	**48.88**	**0.00**	**16.80**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-1-2021	5-31-2021	1.3999	1.3999
2	6-1-2021	8-31-2021	2.9074	2.9074
3	9-1-2021	11-30-2021	2.7779	2.7779
4	12-1-2021	2-28-2022	0.8699	0.8699
5	3-1-2022	5-31-2022	0.1983	0.1983
		Highest	2.9074	2.9074

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	0.2516	9.7300e-003	0.3424	6.0000e-005		2.3600e-003	2.3600e-003		2.3600e-003	2.3600e-003	0.0000	7.2927	7.2927	6.6000e-004	1.2000e-004	7.3461
Energy	4.6300e-003	0.0395	0.0168	2.5000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	106.2171	106.2171	3.3500e-003	1.3300e-003	106.6981
Mobile	0.0609	0.3464	0.8126	3.9500e-003	0.4041	2.3800e-003	0.4065	0.1083	2.2100e-003	0.1105	0.0000	367.2573	367.2573	0.0146	0.0000	367.6214
Waste						0.0000	0.0000		0.0000	0.0000	10.5738	0.0000	10.5738	0.6249	0.0000	26.1961
Water						0.0000	0.0000		0.0000	0.0000	0.6821	10.3517	11.0338	0.0705	1.7400e-003	13.3141
Total	**0.3171**	**0.3956**	**1.1718**	**4.2600e-003**	**0.4041**	**7.9400e-003**	**0.4121**	**0.1083**	**7.7700e-003**	**0.1160**	**11.2559**	**491.1188**	**502.3748**	**0.7139**	**3.1900e-003**	**521.1758**

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	0.2516	9.7300e-003	0.3424	6.0000e-005		2.3600e-003	2.3600e-003		2.3600e-003	2.3600e-003	0.0000	7.2927	7.2927	6.6000e-004	1.2000e-004	7.3461
Energy	4.6300e-003	0.0395	0.0168	2.5000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	86.0487	86.0487	2.5200e-003	1.1700e-003	86.4599
Mobile	0.0609	0.3464	0.8126	3.9500e-003	0.4041	2.3800e-003	0.4065	0.1083	2.2100e-003	0.1105	0.0000	367.2573	367.2573	0.0146	0.0000	367.6214
Waste						0.0000	0.0000		0.0000	0.0000	7.8246	0.0000	7.8246	0.4624	0.0000	19.3851
Water						0.0000	0.0000		0.0000	0.0000	0.5457	9.1087	9.6544	0.0564	1.4000e-003	11.4814
Total	**0.3171**	**0.3956**	**1.1718**	**4.2600e-003**	**0.4041**	**7.9400e-003**	**0.4121**	**0.1083**	**7.7700e-003**	**0.1160**	**8.3703**	**469.7074**	**478.0777**	**0.5366**	**2.6900e-003**	**492.2940**

	ROG	NOx	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**	**25.64**	**4.36**	**4.84**	**24.84**	**15.67**	**5.54**

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2021	3/26/2021	5	20	
2	Site Preparation - Phase I	Site Preparation	3/27/2021	4/16/2021	5	15	
3	Grading - Phase I	Grading	4/19/2021	6/18/2021	5	45	
4	Building Construction - Phase I	Building Construction	5/15/2021	10/11/2021	5	106	
5	Building Construction - Phase II	Building Construction	7/15/2021	12/9/2021	5	106	
6	Building Construction - Phase III	Building Construction	10/12/2021	3/8/2022	5	106	
7	Architectural Coating - Phase I	Architectural Coating	10/12/2021	10/29/2021	5	14	
8	Architectural Coating - Phase II	Architectural Coating	2/17/2022	3/8/2022	5	14	
9	Paving - Phase III	Paving	3/9/2022	3/29/2022	5	15	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.65

Residential Indoor: 123,041; Residential Outdoor: 41,014; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,724 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation - Phase I	Scrapers	2	8.00	367	0.48
Grading - Phase I	Excavators	1	8.00	158	0.38
Grading - Phase I	Graders	1	8.00	187	0.41
Grading - Phase I	Rubber Tired Dozers	1	8.00	247	0.40

Grading - Phase I	Scrapers	0		367	0.48
Grading - Phase I	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction - Phase I	Cranes	1	7.00	231	0.29
Building Construction - Phase I	Forklifts	3	8.00	89	0.20
Building Construction - Phase I	Generator Sets	1	8.00	84	0.74
Building Construction - Phase I	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phase I	Welders	1	8.00	46	0.45
Building Construction - Phase II	Cranes	1	7.00	231	0.29
Building Construction - Phase II	Forklifts	3	8.00	89	0.20
Building Construction - Phase II	Generator Sets	1	8.00	84	0.74
Building Construction - Phase II	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phase II	Welders	1	8.00	46	0.45
Building Construction - Phase III	Cranes	1	7.00	231	0.29
Building Construction - Phase III	Forklifts	3	8.00	89	0.20
Building Construction - Phase III	Generator Sets	1	8.00	84	0.74
Building Construction - Phase III	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phase III	Welders	1	8.00	46	0.45
Architectural Coating - Phase I	Air Compressors	1	6.00	78	0.48
Architectural Coating - Phase II	Air Compressors	1	6.00	78	0.48
Paving - Phase III	Pavers	1	8.00	130	0.42
Paving - Phase III	Paving Equipment	2	6.00	132	0.36
Paving - Phase III	Paving Equipment	2	6.00	132	0.36

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	104.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation - Phase I	2	5.00	0.00	375.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading - Phase I	6	15.00	0.00	594.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phase I	9	27.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phase II	9	27.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phase III	9	27.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Phase I	1	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Phase II	1	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving - Phase III	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 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					0.0113	0.0000	0.0113	1.7100e-003	0.0000	1.7100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3144	0.2157	3.9000e-004		0.0155	0.0155		0.0144	0.0144	0.0000	34.0008	34.0008	9.5700e-003	0.0000	34.2400
Total	**0.0317**	**0.3144**	**0.2157**	**3.9000e-004**	**0.0113**	**0.0155**	**0.0268**	**1.7100e-003**	**0.0144**	**0.0161**	**0.0000**	**34.0008**	**34.0008**	**9.5700e-003**	**0.0000**	**34.2400**

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	3.8000e-004	0.0136	2.8700e-003	4.0000e-005	8.9000e-004	4.0000e-005	9.4000e-004	2.5000e-004	4.0000e-005	2.8000e-004	0.0000	3.8828	3.8828	2.7000e-004	0.0000	3.8895
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	6.3000e-004	4.6000e-004	5.2300e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4335	1.4335	4.0000e-005	0.0000	1.4345
Total	**1.0100e-003**	**0.0140**	**8.1000e-003**	**6.0000e-005**	**2.5400e-003**	**5.0000e-005**	**2.6000e-003**	**6.9000e-004**	**5.0000e-005**	**7.3000e-004**	**0.0000**	**5.3163**	**5.3163**	**3.1000e-004**	**0.0000**	**5.3239**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.4000e-003	0.0000	4.4000e-003	6.7000e-004	0.0000	6.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3144	0.2157	3.9000e-004		0.0155	0.0155		0.0144	0.0144	0.0000	34.0007	34.0007	9.5700e-003	0.0000	34.2400
Total	**0.0317**	**0.3144**	**0.2157**	**3.9000e-004**	**4.4000e-003**	**0.0155**	**0.0199**	**6.7000e-004**	**0.0144**	**0.0151**	**0.0000**	**34.0007**	**34.0007**	**9.5700e-003**	**0.0000**	**34.2400**

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	3.8000e-004	0.0136	2.8700e-003	4.0000e-005	8.9000e-004	4.0000e-005	9.4000e-004	2.5000e-004	4.0000e-005	2.8000e-004	0.0000	3.8828	3.8828	2.7000e-004	0.0000	3.8895
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	6.3000e-004	4.6000e-004	5.2300e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4335	1.4335	4.0000e-005	0.0000	1.4345
Total	**1.0100e-003**	**0.0140**	**8.1000e-003**	**6.0000e-005**	**2.5400e-003**	**5.0000e-005**	**2.6000e-003**	**6.9000e-004**	**5.0000e-005**	**7.3000e-004**	**0.0000**	**5.3163**	**5.3163**	**3.1000e-004**	**0.0000**	**5.3239**

3.3 Site Preparation - Phase I - 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					0.0161	0.0000	0.0161	1.7400e-003	0.0000	1.7400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0139	0.1605	0.1051	2.3000e-004		6.2500e-003	6.2500e-003		5.7500e-003	5.7500e-003	0.0000	19.9750	19.9750	6.4600e-003	0.0000	20.1365
Total	**0.0139**	**0.1605**	**0.1051**	**2.3000e-004**	**0.0161**	**6.2500e-003**	**0.0223**	**1.7400e-003**	**5.7500e-003**	**7.4900e-003**	**0.0000**	**19.9750**	**19.9750**	**6.4600e-003**	**0.0000**	**20.1365**

3.3 Site Preparation - Phase I - 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	1.3800e-003	0.0489	0.0104	1.4000e-004	3.2200e-003	1.5000e-004	3.3700e-003	8.8000e-004	1.4000e-004	1.0300e-003	0.0000	14.0006	14.0006	9.6000e-004	0.0000	14.0246
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	1.6000e-004	1.2000e-004	1.3100e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3584	0.3584	1.0000e-005	0.0000	0.3586
Total	**1.5400e-003**	**0.0490**	**0.0117**	**1.4000e-004**	**3.6300e-003**	**1.5000e-004**	**3.7800e-003**	**9.9000e-004**	**1.4000e-004**	**1.1400e-003**	**0.0000**	**14.3590**	**14.3590**	**9.7000e-004**	**0.0000**	**14.3832**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.2700e-003	0.0000	6.2700e-003	6.8000e-004	0.0000	6.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0139	0.1605	0.1051	2.3000e-004		6.2500e-003	6.2500e-003		5.7500e-003	5.7500e-003	0.0000	19.9750	19.9750	6.4600e-003	0.0000	20.1365
Total	**0.0139**	**0.1605**	**0.1051**	**2.3000e-004**	**6.2700e-003**	**6.2500e-003**	**0.0125**	**6.8000e-004**	**5.7500e-003**	**6.4300e-003**	**0.0000**	**19.9750**	**19.9750**	**6.4600e-003**	**0.0000**	**20.1365**

3.3 Site Preparation - Phase I - 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	1.3800e-003	0.0489	0.0104	1.4000e-004	3.2200e-003	1.5000e-004	3.3700e-003	8.8000e-004	1.4000e-004	1.0300e-003	0.0000	14.0006	14.0006	9.6000e-004	0.0000	14.0246
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	1.6000e-004	1.2000e-004	1.3100e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3584	0.3584	1.0000e-005	0.0000	0.3586
Total	**1.5400e-003**	**0.0490**	**0.0117**	**1.4000e-004**	**3.6300e-003**	**1.5000e-004**	**3.7800e-003**	**9.9000e-004**	**1.4000e-004**	**1.1400e-003**	**0.0000**	**14.3590**	**14.3590**	**9.7000e-004**	**0.0000**	**14.3832**

3.4 Grading - Phase I - 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					0.1477	0.0000	0.1477	0.0758	0.0000	0.0758	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0515	0.5566	0.3568	6.7000e-004		0.0261	0.0261		0.0240	0.0240	0.0000	58.6208	58.6208	0.0190	0.0000	59.0948
Total	**0.0515**	**0.5566**	**0.3568**	**6.7000e-004**	**0.1477**	**0.0261**	**0.1738**	**0.0758**	**0.0240**	**0.0998**	**0.0000**	**58.6208**	**58.6208**	**0.0190**	**0.0000**	**59.0948**

3.4 Grading - Phase I - 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	2.1800e-003	0.0774	0.0164	2.3000e-004	5.1100e-003	2.3000e-004	5.3400e-003	1.4000e-003	2.2000e-004	1.6300e-003	0.0000	22.1770	22.1770	1.5200e-003	0.0000	22.2149
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	1.4100e-003	1.0400e-003	0.0118	4.0000e-005	3.7000e-003	3.0000e-005	3.7300e-003	9.8000e-004	3.0000e-005	1.0100e-003	0.0000	3.2254	3.2254	9.0000e-005	0.0000	3.2275
Total	**3.5900e-003**	**0.0784**	**0.0282**	**2.7000e-004**	**8.8100e-003**	**2.6000e-004**	**9.0700e-003**	**2.3800e-003**	**2.5000e-004**	**2.6400e-003**	**0.0000**	**25.4023**	**25.4023**	**1.6100e-003**	**0.0000**	**25.4425**

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					0.0576	0.0000	0.0576	0.0296	0.0000	0.0296	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0515	0.5566	0.3568	6.7000e-004		0.0261	0.0261		0.0240	0.0240	0.0000	58.6208	58.6208	0.0190	0.0000	59.0947
Total	**0.0515**	**0.5566**	**0.3568**	**6.7000e-004**	**0.0576**	**0.0261**	**0.0837**	**0.0296**	**0.0240**	**0.0536**	**0.0000**	**58.6208**	**58.6208**	**0.0190**	**0.0000**	**59.0947**

3.4 Grading - Phase I - 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	2.1800e-003	0.0774	0.0164	2.3000e-004	5.1100e-003	2.3000e-004	5.3400e-003	1.4000e-003	2.2000e-004	1.6300e-003	0.0000	22.1770	22.1770	1.5200e-003	0.0000	22.2149
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	1.4100e-003	1.0400e-003	0.0118	4.0000e-005	3.7000e-003	3.0000e-005	3.7300e-003	9.8000e-004	3.0000e-005	1.0100e-003	0.0000	3.2254	3.2254	9.0000e-005	0.0000	3.2275
Total	**3.5900e-003**	**0.0784**	**0.0282**	**2.7000e-004**	**8.8100e-003**	**2.6000e-004**	**9.0700e-003**	**2.3800e-003**	**2.5000e-004**	**2.6400e-003**	**0.0000**	**25.4023**	**25.4023**	**1.6100e-003**	**0.0000**	**25.4425**

3.5 Building Construction - Phase I - 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	0.1008	0.9239	0.8785	1.4300e-003		0.0508	0.0508		0.0478	0.0478	0.0000	122.7678	122.7678	0.0296	0.0000	123.5082
Total	**0.1008**	**0.9239**	**0.8785**	**1.4300e-003**		**0.0508**	**0.0508**		**0.0478**	**0.0478**	**0.0000**	**122.7678**	**122.7678**	**0.0296**	**0.0000**	**123.5082**

3.5 Building Construction - Phase I - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3600e-003	0.0462	0.0114	1.2000e-004	3.0100e-003	9.0000e-005	3.1000e-003	8.7000e-004	9.0000e-005	9.6000e-004	0.0000	11.6458	11.6458	7.4000e-004	0.0000	11.6642
Worker	5.9600e-003	4.4100e-003	0.0499	1.5000e-004	0.0157	1.2000e-004	0.0158	4.1700e-003	1.1000e-004	4.2800e-003	0.0000	13.6755	13.6755	3.7000e-004	0.0000	13.6847
Total	**7.3200e-003**	**0.0506**	**0.0613**	**2.7000e-004**	**0.0187**	**2.1000e-004**	**0.0189**	**5.0400e-003**	**2.0000e-004**	**5.2400e-003**	**0.0000**	**25.3213**	**25.3213**	**1.1100e-003**	**0.0000**	**25.3489**

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	0.1008	0.9239	0.8785	1.4300e-003		0.0508	0.0508		0.0478	0.0478	0.0000	122.7676	122.7676	0.0296	0.0000	123.5081
Total	**0.1008**	**0.9239**	**0.8785**	**1.4300e-003**		**0.0508**	**0.0508**		**0.0478**	**0.0478**	**0.0000**	**122.7676**	**122.7676**	**0.0296**	**0.0000**	**123.5081**

3.5 Building Construction - Phase I - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3600e-003	0.0462	0.0114	1.2000e-004	3.0100e-003	9.0000e-005	3.1000e-003	8.7000e-004	9.0000e-005	9.6000e-004	0.0000	11.6458	11.6458	7.4000e-004	0.0000	11.6642
Worker	5.9600e-003	4.4100e-003	0.0499	1.5000e-004	0.0157	1.2000e-004	0.0158	4.1700e-003	1.1000e-004	4.2800e-003	0.0000	13.6755	13.6755	3.7000e-004	0.0000	13.6847
Total	**7.3200e-003**	**0.0506**	**0.0613**	**2.7000e-004**	**0.0187**	**2.1000e-004**	**0.0189**	**5.0400e-003**	**2.0000e-004**	**5.2400e-003**	**0.0000**	**25.3213**	**25.3213**	**1.1100e-003**	**0.0000**	**25.3489**

3.6 Building Construction - Phase II - 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	0.1008	0.9239	0.8785	1.4300e-003		0.0508	0.0508		0.0478	0.0478	0.0000	122.7678	122.7678	0.0296	0.0000	123.5082
Total	**0.1008**	**0.9239**	**0.8785**	**1.4300e-003**		**0.0508**	**0.0508**		**0.0478**	**0.0478**	**0.0000**	**122.7678**	**122.7678**	**0.0296**	**0.0000**	**123.5082**

3.6 Building Construction - Phase II - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3600e-003	0.0462	0.0114	1.2000e-004	3.0100e-003	9.0000e-005	3.1000e-003	8.7000e-004	9.0000e-005	9.6000e-004	0.0000	11.6458	11.6458	7.4000e-004	0.0000	11.6642
Worker	5.9600e-003	4.4100e-003	0.0499	1.5000e-004	0.0157	1.2000e-004	0.0158	4.1700e-003	1.1000e-004	4.2800e-003	0.0000	13.6755	13.6755	3.7000e-004	0.0000	13.6847
Total	**7.3200e-003**	**0.0506**	**0.0613**	**2.7000e-004**	**0.0187**	**2.1000e-004**	**0.0189**	**5.0400e-003**	**2.0000e-004**	**5.2400e-003**	**0.0000**	**25.3213**	**25.3213**	**1.1100e-003**	**0.0000**	**25.3489**

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	0.1008	0.9239	0.8785	1.4300e-003		0.0508	0.0508		0.0478	0.0478	0.0000	122.7676	122.7676	0.0296	0.0000	123.5081
Total	**0.1008**	**0.9239**	**0.8785**	**1.4300e-003**		**0.0508**	**0.0508**		**0.0478**	**0.0478**	**0.0000**	**122.7676**	**122.7676**	**0.0296**	**0.0000**	**123.5081**

3.6 Building Construction - Phase II - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3600e-003	0.0462	0.0114	1.2000e-004	3.0100e-003	9.0000e-005	3.1000e-003	8.7000e-004	9.0000e-005	9.6000e-004	0.0000	11.6458	11.6458	7.4000e-004	0.0000	11.6642
Worker	5.9600e-003	4.4100e-003	0.0499	1.5000e-004	0.0157	1.2000e-004	0.0158	4.1700e-003	1.1000e-004	4.2800e-003	0.0000	13.6755	13.6755	3.7000e-004	0.0000	13.6847
Total	**7.3200e-003**	**0.0506**	**0.0613**	**2.7000e-004**	**0.0187**	**2.1000e-004**	**0.0189**	**5.0400e-003**	**2.0000e-004**	**5.2400e-003**	**0.0000**	**25.3213**	**25.3213**	**1.1100e-003**	**0.0000**	**25.3489**

3.7 Building Construction - Phase III - 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	0.0561	0.5143	0.4890	7.9000e-004		0.0283	0.0283		0.0266	0.0266	0.0000	68.3330	68.3330	0.0165	0.0000	68.7451
Total	**0.0561**	**0.5143**	**0.4890**	**7.9000e-004**		**0.0283**	**0.0283**		**0.0266**	**0.0266**	**0.0000**	**68.3330**	**68.3330**	**0.0165**	**0.0000**	**68.7451**

3.7 Building Construction - Phase III - 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	7.6000e-004	0.0257	6.3700e-003	7.0000e-005	1.6700e-003	5.0000e-005	1.7300e-003	4.8000e-004	5.0000e-005	5.3000e-004	0.0000	6.4821	6.4821	4.1000e-004	0.0000	6.4923
Worker	3.3200e-003	2.4500e-003	0.0278	8.0000e-005	8.7400e-003	7.0000e-005	8.8000e-003	2.3200e-003	6.0000e-005	2.3800e-003	0.0000	7.6118	7.6118	2.0000e-004	0.0000	7.6169
Total	**4.0800e-003**	**0.0281**	**0.0341**	**1.5000e-004**	**0.0104**	**1.2000e-004**	**0.0105**	**2.8000e-003**	**1.1000e-004**	**2.9100e-003**	**0.0000**	**14.0939**	**14.0939**	**6.1000e-004**	**0.0000**	**14.1093**

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	0.0561	0.5143	0.4890	7.9000e-004		0.0283	0.0283		0.0266	0.0266	0.0000	68.3329	68.3329	0.0165	0.0000	68.7451
Total	**0.0561**	**0.5143**	**0.4890**	**7.9000e-004**		**0.0283**	**0.0283**		**0.0266**	**0.0266**	**0.0000**	**68.3329**	**68.3329**	**0.0165**	**0.0000**	**68.7451**

3.7 Building Construction - Phase III - 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	7.6000e-004	0.0257	6.3700e-003	7.0000e-005	1.6700e-003	5.0000e-005	1.7300e-003	4.8000e-004	5.0000e-005	5.3000e-004	0.0000	6.4821	6.4821	4.1000e-004	0.0000	6.4923
Worker	3.3200e-003	2.4500e-003	0.0278	8.0000e-005	8.7400e-003	7.0000e-005	8.8000e-003	2.3200e-003	6.0000e-005	2.3800e-003	0.0000	7.6118	7.6118	2.0000e-004	0.0000	7.6169
Total	**4.0800e-003**	**0.0281**	**0.0341**	**1.5000e-004**	**0.0104**	**1.2000e-004**	**0.0105**	**2.8000e-003**	**1.1000e-004**	**2.9100e-003**	**0.0000**	**14.0939**	**14.0939**	**6.1000e-004**	**0.0000**	**14.1093**

3.7 Building Construction - Phase III - 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	0.0401	0.3670	0.3845	6.3000e-004		0.0190	0.0190		0.0179	0.0179	0.0000	54.4554	54.4554	0.0131	0.0000	54.7816
Total	**0.0401**	**0.3670**	**0.3845**	**6.3000e-004**		**0.0190**	**0.0190**		**0.0179**	**0.0179**	**0.0000**	**54.4554**	**54.4554**	**0.0131**	**0.0000**	**54.7816**

3.7 Building Construction - Phase III - 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	5.6000e-004	0.0194	4.8000e-003	5.0000e-005	1.3300e-003	4.0000e-005	1.3700e-003	3.8000e-004	3.0000e-005	4.2000e-004	0.0000	5.1182	5.1182	3.1000e-004	0.0000	5.1261
Worker	2.4800e-003	1.7700e-003	0.0204	6.0000e-005	6.9600e-003	5.0000e-005	7.0100e-003	1.8500e-003	5.0000e-005	1.9000e-003	0.0000	5.8463	5.8463	1.5000e-004	0.0000	5.8499
Total	**3.0400e-003**	**0.0212**	**0.0252**	**1.1000e-004**	**8.2900e-003**	**9.0000e-005**	**8.3800e-003**	**2.2300e-003**	**8.0000e-005**	**2.3200e-003**	**0.0000**	**10.9645**	**10.9645**	**4.6000e-004**	**0.0000**	**10.9760**

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	0.0401	0.3670	0.3845	6.3000e-004		0.0190	0.0190		0.0179	0.0179	0.0000	54.4554	54.4554	0.0131	0.0000	54.7815
Total	**0.0401**	**0.3670**	**0.3845**	**6.3000e-004**		**0.0190**	**0.0190**		**0.0179**	**0.0179**	**0.0000**	**54.4554**	**54.4554**	**0.0131**	**0.0000**	**54.7815**

3.7 Building Construction - Phase III - 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	5.6000e-004	0.0194	4.8000e-003	5.0000e-005	1.3300e-003	4.0000e-005	1.3700e-003	3.8000e-004	3.0000e-005	4.2000e-004	0.0000	5.1182	5.1182	3.1000e-004	0.0000	5.1261
Worker	2.4800e-003	1.7700e-003	0.0204	6.0000e-005	6.9600e-003	5.0000e-005	7.0100e-003	1.8500e-003	5.0000e-005	1.9000e-003	0.0000	5.8463	5.8463	1.5000e-004	0.0000	5.8499
Total	**3.0400e-003**	**0.0212**	**0.0252**	**1.1000e-004**	**8.2900e-003**	**9.0000e-005**	**8.3800e-003**	**2.2300e-003**	**8.0000e-005**	**2.3200e-003**	**0.0000**	**10.9645**	**10.9645**	**4.6000e-004**	**0.0000**	**10.9760**

3.8 Architectural Coating - Phase I - 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	0.1941					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5300e-003	0.0107	0.0127	2.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	1.7873	1.7873	1.2000e-004	0.0000	1.7903
Total	**0.1956**	**0.0107**	**0.0127**	**2.0000e-005**		**6.6000e-004**	**6.6000e-004**		**6.6000e-004**	**6.6000e-004**	**0.0000**	**1.7873**	**1.7873**	**1.2000e-004**	**0.0000**	**1.7903**

3.8 Architectural Coating - Phase I - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.1000e-004	1.2200e-003	0.0000	3.8000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3345	0.3345	1.0000e-005	0.0000	0.3347
Total	**1.5000e-004**	**1.1000e-004**	**1.2200e-003**	**0.0000**	**3.8000e-004**	**0.0000**	**3.9000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3345**	**0.3345**	**1.0000e-005**	**0.0000**	**0.3347**

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	0.1941					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5300e-003	0.0107	0.0127	2.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	1.7873	1.7873	1.2000e-004	0.0000	1.7903
Total	**0.1956**	**0.0107**	**0.0127**	**2.0000e-005**		**6.6000e-004**	**6.6000e-004**		**6.6000e-004**	**6.6000e-004**	**0.0000**	**1.7873**	**1.7873**	**1.2000e-004**	**0.0000**	**1.7903**

3.8 Architectural Coating - Phase I - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.1000e-004	1.2200e-003	0.0000	3.8000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3345	0.3345	1.0000e-005	0.0000	0.3347
Total	**1.5000e-004**	**1.1000e-004**	**1.2200e-003**	**0.0000**	**3.8000e-004**	**0.0000**	**3.9000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3345**	**0.3345**	**1.0000e-005**	**0.0000**	**0.3347**

3.9 Architectural Coating - Phase II - 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	0.1941					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4300e-003	9.8600e-003	0.0127	2.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	1.7873	1.7873	1.2000e-004	0.0000	1.7902
Total	**0.1955**	**9.8600e-003**	**0.0127**	**2.0000e-005**		**5.7000e-004**	**5.7000e-004**		**5.7000e-004**	**5.7000e-004**	**0.0000**	**1.7873**	**1.7873**	**1.2000e-004**	**0.0000**	**1.7902**

3.9 Architectural Coating - Phase II - 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	1.4000e-004	1.0000e-004	1.1300e-003	0.0000	3.8000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3225	0.3225	1.0000e-005	0.0000	0.3227
Total	**1.4000e-004**	**1.0000e-004**	**1.1300e-003**	**0.0000**	**3.8000e-004**	**0.0000**	**3.9000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3225**	**0.3225**	**1.0000e-005**	**0.0000**	**0.3227**

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	0.1941					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4300e-003	9.8600e-003	0.0127	2.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	1.7873	1.7873	1.2000e-004	0.0000	1.7902
Total	**0.1955**	**9.8600e-003**	**0.0127**	**2.0000e-005**		**5.7000e-004**	**5.7000e-004**		**5.7000e-004**	**5.7000e-004**	**0.0000**	**1.7873**	**1.7873**	**1.2000e-004**	**0.0000**	**1.7902**

3.9 Architectural Coating - Phase II - 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	1.4000e-004	1.0000e-004	1.1300e-003	0.0000	3.8000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3225	0.3225	1.0000e-005	0.0000	0.3227
Total	**1.4000e-004**	**1.0000e-004**	**1.1300e-003**	**0.0000**	**3.8000e-004**	**0.0000**	**3.9000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3225**	**0.3225**	**1.0000e-005**	**0.0000**	**0.3227**

3.10 Paving - Phase III - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.5600e-003	0.0548	0.0789	1.3000e-004		2.6600e-003	2.6600e-003		2.4400e-003	2.4400e-003	0.0000	11.1493	11.1493	3.6100e-003	0.0000	11.2394
Paving	8.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.4100e-003**	**0.0548**	**0.0789**	**1.3000e-004**		**2.6600e-003**	**2.6600e-003**		**2.4400e-003**	**2.4400e-003**	**0.0000**	**11.1493**	**11.1493**	**3.6100e-003**	**0.0000**	**11.2394**

3.10 Paving - Phase III - 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	3.8000e-004	2.7000e-004	3.1400e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0800e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.8984	0.8984	2.0000e-005	0.0000	0.8989
Total	**3.8000e-004**	**2.7000e-004**	**3.1400e-003**	**1.0000e-005**	**1.0700e-003**	**1.0000e-005**	**1.0800e-003**	**2.8000e-004**	**1.0000e-005**	**2.9000e-004**	**0.0000**	**0.8984**	**0.8984**	**2.0000e-005**	**0.0000**	**0.8989**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.5600e-003	0.0548	0.0789	1.3000e-004		2.6600e-003	2.6600e-003		2.4400e-003	2.4400e-003	0.0000	11.1493	11.1493	3.6100e-003	0.0000	11.2394
Paving	8.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.4100e-003**	**0.0548**	**0.0789**	**1.3000e-004**		**2.6600e-003**	**2.6600e-003**		**2.4400e-003**	**2.4400e-003**	**0.0000**	**11.1493**	**11.1493**	**3.6100e-003**	**0.0000**	**11.2394**

3.10 Paving - Phase III - 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	3.8000e-004	2.7000e-004	3.1400e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0800e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.8984	0.8984	2.0000e-005	0.0000	0.8989
Total	**3.8000e-004**	**2.7000e-004**	**3.1400e-003**	**1.0000e-005**	**1.0700e-003**	**1.0000e-005**	**1.0800e-003**	**2.8000e-004**	**1.0000e-005**	**2.9000e-004**	**0.0000**	**0.8984**	**0.8984**	**2.0000e-005**	**0.0000**	**0.8989**

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	0.0609	0.3464	0.8126	3.9500e-003	0.4041	2.3800e-003	0.4065	0.1083	2.2100e-003	0.1105	0.0000	367.2573	367.2573	0.0146	0.0000	367.6214
Unmitigated	0.0609	0.3464	0.8126	3.9500e-003	0.4041	2.3800e-003	0.4065	0.1083	2.2100e-003	0.1105	0.0000	367.2573	367.2573	0.0146	0.0000	367.6214

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	311.52	311.52	311.52	1,063,867	1,063,867
Total	311.52	311.52	311.52	1,063,867	1,063,867

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
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.552035	0.041482	0.206421	0.111285	0.012766	0.005738	0.022315	0.037879	0.002185	0.001506	0.004914	0.000717	0.000757
Other Asphalt Surfaces	0.552035	0.041482	0.206421	0.111285	0.012766	0.005738	0.022315	0.037879	0.002185	0.001506	0.004914	0.000717	0.000757
Parking Lot	0.552035	0.041482	0.206421	0.111285	0.012766	0.005738	0.022315	0.037879	0.002185	0.001506	0.004914	0.000717	0.000757
Single Family Housing	0.552035	0.041482	0.206421	0.111285	0.012766	0.005738	0.022315	0.037879	0.002185	0.001506	0.004914	0.000717	0.000757

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	40.2656	40.2656	1.6500e-003	3.3000e-004	40.4048
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	60.4341	60.4341	2.4700e-003	4.9000e-004	60.6430
NaturalGas Mitigated	4.6300e-003	0.0395	0.0168	2.5000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	45.7831	45.7831	8.8000e-004	8.4000e-004	46.0551
NaturalGas Unmitigated	4.6300e-003	0.0395	0.0168	2.5000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	45.7831	45.7831	8.8000e-004	8.4000e-004	46.0551

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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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
Single Family Housing	857942	4.6300e-003	0.0395	0.0168	2.5000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	45.7831	45.7831	8.8000e-004	8.4000e-004	46.0551
Total		**4.6300e-003**	**0.0395**	**0.0168**	**2.5000e-004**		**3.2000e-003**	**3.2000e-003**		**3.2000e-003**	**3.2000e-003**	**0.0000**	**45.7831**	**45.7831**	**8.8000e-004**	**8.4000e-004**	**46.0551**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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
Single Family Housing	857942	4.6300e-003	0.0395	0.0168	2.5000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	45.7831	45.7831	8.8000e-004	8.4000e-004	46.0551
Total		**4.6300e-003**	**0.0395**	**0.0168**	**2.5000e-004**		**3.2000e-003**	**3.2000e-003**		**3.2000e-003**	**3.2000e-003**	**0.0000**	**45.7831**	**45.7831**	**8.8000e-004**	**8.4000e-004**	**46.0551**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	2380	0.5284	2.0000e-005	0.0000	0.5302
Single Family Housing	269849	59.9057	2.4500e-003	4.9000e-004	60.1128
Total		**60.4341**	**2.4700e-003**	**4.9000e-004**	**60.6430**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	-22712.5	-5.0421	-0.0002	0.0000	-5.0595
Other Asphalt Surfaces	-22712.5	-5.0421	-0.0002	0.0000	-5.0595
Parking Lot	-20332.5	-4.5138	-0.0002	0.0000	-4.5294
Single Family Housing	247136	54.8636	2.2400e-003	4.5000e-004	55.0533
Total		**40.2656**	**1.6400e-003**	**3.3000e-004**	**40.4048**

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	0.2516	9.7300e-003	0.3424	6.0000e-005		2.3600e-003	2.3600e-003		2.3600e-003	2.3600e-003	0.0000	7.2927	7.2927	6.6000e-004	1.2000e-004	7.3461
Unmitigated	0.2516	9.7300e-003	0.3424	6.0000e-005		2.3600e-003	2.3600e-003		2.3600e-003	2.3600e-003	0.0000	7.2927	7.2927	6.6000e-004	1.2000e-004	7.3461

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	0.0192					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2215					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.8000e-004	5.8200e-003	2.4800e-003	4.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	6.7359	6.7359	1.3000e-004	1.2000e-004	6.7759
Landscaping	0.0102	3.9200e-003	0.3399	2.0000e-005		1.8900e-003	1.8900e-003		1.8900e-003	1.8900e-003	0.0000	0.5569	0.5569	5.3000e-004	0.0000	0.5702
Total	**0.2516**	**9.7400e-003**	**0.3424**	**6.0000e-005**		**2.3600e-003**	**2.3600e-003**		**2.3600e-003**	**2.3600e-003**	**0.0000**	**7.2927**	**7.2927**	**6.6000e-004**	**1.2000e-004**	**7.3461**

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	0.0192					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2215					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.8000e-004	5.8200e-003	2.4800e-003	4.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	6.7359	6.7359	1.3000e-004	1.2000e-004	6.7759
Landscaping	0.0102	3.9200e-003	0.3399	2.0000e-005		1.8900e-003	1.8900e-003		1.8900e-003	1.8900e-003	0.0000	0.5569	0.5569	5.3000e-004	0.0000	0.5702
Total	**0.2516**	**9.7400e-003**	**0.3424**	**6.0000e-005**		**2.3600e-003**	**2.3600e-003**		**2.3600e-003**	**2.3600e-003**	**0.0000**	**7.2927**	**7.2927**	**6.6000e-004**	**1.2000e-004**	**7.3461**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	9.6544	0.0564	1.4000e-003	11.4814
Unmitigated	11.0338	0.0705	1.7400e-003	13.3141

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.3217	0.7934	3.0000e-005	1.0000e-005	0.7962
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.15008 / 1.35549	10.2404	0.0705	1.7300e-003	12.5179
Total		**11.0338**	**0.0705**	**1.7400e-003**	**13.3141**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.3217	0.7934	3.0000e-005	1.0000e-005	0.7962
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.72007 / 1.35549	8.8609	0.0564	1.3900e-003	10.6853
Total		**9.6544**	**0.0564**	**1.4000e-003**	**11.4814**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.8246	0.4624	0.0000	19.3851
Unmitigated	10.5738	0.6249	0.0000	26.1961

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	52.07	10.5697	0.6247	0.0000	26.1861
Total		**10.5738**	**0.6249**	**0.0000**	**26.1961**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.0148	3.0000e-003	1.8000e-004	0.0000	7.4400e-003
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	38.5318	7.8216	0.4622	0.0000	19.3777
Total		**7.8246**	**0.4624**	**0.0000**	**19.3851**

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

N2O Operational GHG Emission Mobile Calculations

Project Code & Title: 20-10059 875 Orange Grove Avenue

Vehicle Population Breakdown*	
12642012	Gasoline vehicles
662745	Diesel vehicles
95.0%	Gasoline vehicle %
5.0%	Diesel vehicle %

VMT per Vehicle Type	
1,063,867	Project VMT (CalEEMod output)
1010873	Gasoline vehicle VMT
52994	Diesel vehicle VMT

Gasoline Vehicles	
95.0%	Gasoline vehicle %
0.3464	Tons per year mobile NOX emissions (annual output in CalEEMod)
0.33	Gasoline vehicle tons per year NOX emissions
0.0282	Tons per year N2O emissions for gasoline vehicles**
0.0256	Metric tons per year N2O emissions for gasoline vehicles

Diesel Vehicles	
1.60	grams N2O per gallon of fuel for diesel vehicles**
23.38	Diesel average miles per gallon*
0.06843	grams per mile N2O for diesel vehicles
3626.5	grams per year N2O for diesel vehicles
0.0036265	Metric tons per year N2O emissions for diesel vehicles

CO2e Emissions from N2O	
0.0292	Metric tons per year from gasoline + diesel vehicles
298	GWP of N2O***
8.7	**CO2e emissions per year from N2O emissions from gasoline + diesel vehicles**

Sources
***Vehicle population source:** EMFAC2017 (v1.0.2) Emissions Inventory Region Type: Air Basin Region: SOUTH COAST Calendar Year: 2030 Season: Annual Vehicle Classification: EMFAC2011 Categories ****Methodology source:** EMFAC2017 Volume III - Technical Documentation https://www.arb.ca.gov/msei/emfac2011-faq.htm *****GWP source:** Intergovernmental Panel on Climate Change (IPCC). 2007. AR4 Climate Change 2007: The Physical Science Basis. Contrbution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change.

Solar PV Requirements for Low-Rise Residential Buildings
(2019 California Energy Code Section 150.1(b)14)

Equation 150.1-C	kWPV = (CFA x A)/1000 + (NDwell x B)

Inputs		
Climate Zone		8
A	Adjustment Factor from Table 150.1-C	0.586
B	Dwelling Adjustment Factor from Table 150.1-C	1.37

Unit Type	Conditioned Floor Area (CFA)	Number of Dwelling Units (Ndwell)	kWPV (KWdc Size of the PV System)
Model A	1351	5	8
Model B	1477	17	24
Model C	1619	11	16
			0
			0
			0
			0
Total Size of PV System (kW)		33	48
kW to kWh Conversion Factor			1900
Amount of Electricity Generated (kWh/yr)			90,850

Sources	
Climate Zones	California Energy Commission. "California Building Climate Zone Areas." Last modified: November 2017. https://www.energy.ca.gov/maps/renewable/building_climate_zones.html
2019 California Energy Code	California Energy Commission. 2018. 2019 Building Energy Efficiency Standards for Residential and Nonresidential Buildings. December 2018. https://www.energy.ca.gov/2018publications/CEC-400-2018-020/CEC-400-2018-020-CMF.pdf
kWh per kW PV Solar System (see page 12 of PDF)	United States Department of Energy. 2003. A Consumer's Guide: Get Your Power from the Sun. https://www.nrel.gov/docs/fy04osti/35297.pdf

Table 150.1-C		
Climate Zone	A - CFA	B - Dwelling Units
1	0.793	1.27
2	0.621	1.22
3	0.628	1.12
4	0.586	1.21
5	0.585	1.06
6	0.594	1.23
7	0.572	1.15
8	0.586	1.37
9	0.613	1.36
10	0.627	1.41
11	0.836	1.44
12	0.613	1.40
13	0.894	1.51
14	0.741	1.26
15	1.56	1.47
16	0.59	1.22

Appendix C

Cultural Resources Assessment

CULTURAL RESOURCES ASSESSMENT

Pomona Church of the Brethren

Pomona, Los Angeles County, California

Prepared for:

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Development Feasability Manager
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1156 North Mountain Avenue
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Prepared by:

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BCR Consulting LLC
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Project No. LEW1901

Data Base Information:
Type of Study: Intensive
Resources Recorded: P-19-188186: Pomona Fellowship Church of the Brethren at 875 West Orange Grove Avenue, Two Historic-Period Houses at 861 West Orange Grove Ave.
Keywords: Pomona Fellowship Church of the Brethren, Louis S. Gamble, Frick & Frick
USGS Quadrangle: 7.5-minute *San Dimas, California* (1981)

BCRCONSULTING LLC

December 21, 2020

MANAGEMENT SUMMARY

BCR Consulting LLC (BCR Consulting) is under contract to Lewis Management Corporation to conduct a Cultural Resources Assessment of the Pomona Church of the Brethren (the subject property; also known as the Pomona Fellowship Church of the Brethren) located in the City of Pomona (City), Los Angeles County, California. A cultural resources records search, additional research, and intensive-level pedestrian field survey were conducted for the subject property pursuant to the California Environmental Quality Act (CEQA) according to City standards.

The cultural resources records search revealed that 21 cultural resource studies have taken place resulting in 23 historic cultural resources (all historic-period) identified within one mile of the subject property. The Church of the Brethren (designated P-19-188186) has been subject to one previous identification and evaluation effort from 2004 that recommended it potentially significant for its architecture. Under CEQA (PRC Section 5024.1(g), significance evaluations that are over five years old are typically updated to "identify historic resources which have become eligible or ineligible due to changed circumstances…". Therefore, BCR Consulting has identified the Pomona Church of the Brethren as well as two historic-period houses within the subject property boundaries, and evaluated them for significance.

The Pomona Church of the Brethren at 875 West Orange Grove Avenue, and the two houses at 861 West Orange Grove Avenue are recommended not eligible for listing in the California Register of Historical Resources (the California Register). As such, the subject property and its constituent buildings are not recommended "historical resources" under CEQA. Furthermore, the subject property and its constituent buildings have not been designated a Historic Landmark and are not within a Historic District designated by the City Historic Preservation Commission and City Council. Pending review by the City Historic Preservation Commission and City Council, the results of this study indicate that the subject property does not appear to meet City eligibility criteria for Landmark or District designation.

The field survey and research have indicated that there are no significant archaeological resources located within the project site boundaries. No archaeological resources of any kind have been identified within a mile of the subject property. Research revealed that the property was initially developed as an orange grove and residence. The orange grove was removed when the church buildings and features were constructed. Mature orange tree roots grow to a depth of seven to 12 feet, and removal of those trees minimally disturbs the top five feet of sediment (Jauregui 2020). Additional mechanical excavation and grading for the subsequent construction further displaced soil within the project site. These factors combine to confer low sensitivity for significant buried archaeological remains. Since the research and fieldwork have failed to identify any cultural resources or sensitivity within the project site boundaries, no significant impacts related to archaeological or historical resources is anticipated and no further investigations or monitoring are recommended for the proposed project unless:

- the proposed project is changed to include areas not subject to this study;
- cultural materials are encountered during project activities.

Although the current study has not indicated sensitivity for cultural resources within the project boundaries, ground disturbing activities always have the potential to reveal buried deposits. In the event that field personnel encounter buried cultural materials, work in the immediate vicinity of the find should cease and a qualified archaeologist should be retained to assess the significance of the find. The qualified archaeologist shall have the authority to stop or divert construction excavation as necessary. If the qualified archaeologist finds that any cultural resources present meet eligibility requirements for listing on the California Register or the National Register, plans for the treatment, evaluation, and mitigation of impacts to the find will need to be developed. Prehistoric or historic cultural materials that may be encountered during ground-disturbing activities include:

- historic artifacts such as glass bottles and fragments, cans, nails, ceramic and pottery fragments, and other metal objects;
- historic structural or building foundations, walkways, cisterns, pipes, privies, and other structural elements;
- prehistoric flaked-stone artifacts and debitage (waste material), consisting of obsidian, basalt, and or cryptocrystalline silicates;
- groundstone artifacts, including mortars, pestles, and grinding slabs;
- dark, greasy soil that may be associated with charcoal, ash, bone, shell, flaked stone, groundstone, and fire affected rocks.

If human remains are encountered, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to PRC Section 5097.98. The County Coroner must be notified of the find immediately. If the 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). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD shall complete the inspection within 48 hours of notification by the NAHC

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INTRODUCTION AND PROJECT DESCRIPTION

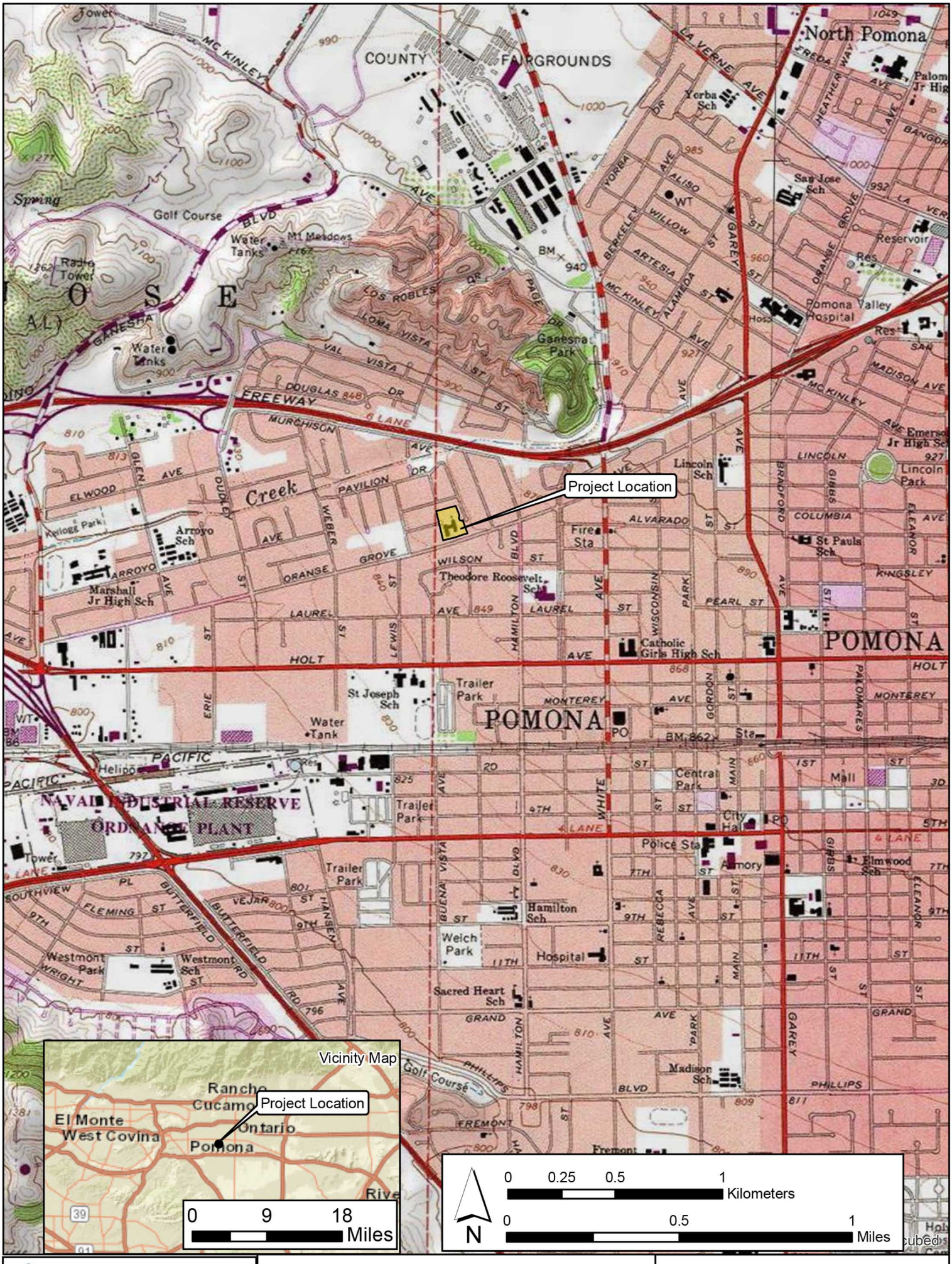
BCR Consulting LLC (BCR Consulting) is under contract to Lewis Management Corporation to conduct a Cultural Resources Assessment of the Pomona Church of the Brethren (the subject property, also known as the Pomona Fellowship Church of the Brethren) located in the City of Pomona (City), Los Angeles County, California. The subject property is located in a non-sectioned portion of Township 1 South, Range 8 West, San Bernardino Baseline and Meridian. It is depicted on the United States Geological Survey (USGS) *San Dimas, California* (1981) 7.5-minute topographic quadrangle (Figure 1). A cultural resources records search, additional research, and intensive-level pedestrian field survey were conducted for the subject property pursuant to the California Environmental Quality Act (CEQA) according to City standards.

The subject property includes three parcels. Its northwest parcel consists of Assessor Parcel Number (APN) 8358-009-006 comprising a church building which includes a sanctuary, offices, and meeting rooms, and a telecommunications tower, a soccer field, and a detached garage. The other two subject parcels are located adjacent to the southeast and consist of APNs 8358-009-009 and 8358-009-010. These parcels contain a single-family residence, and a detached garage that has been converted into a residential unit. Crestwood Communities has proposed a project to demolish the church building, the detached garage, the single-family residence, and the converted detached garage, and to develop a 33-unit residential complex. The telecommunications tower and associated equipment will be retained. Access to the project site will be provided by a proposed u-shaped road connected to Orange Grove Avenue on the south. Amenities will include visitor parking, a covered barbeque and trellis area, tot lot, concrete sidewalks, and a six-foot tall tan masonry block perimeter wall. Four to six feet of excavation is anticipated for the project site. A project exhibit is provided in Appendix A.

NATURAL SETTING

The project is located in the Pomona Valley, which is bounded on the west by the San Jose Hills, on the south by the Chino Hills, on the north by the foothills of the San Gabriel Mountains (USGS 1981), and on the east by La Sierra and the Jurupa Mountains. Local rainfall ranges from 5 to 15 inches annually (Jaeger and Smith 1971:36-37). The area containing the project site exhibits a very gradual southwesterly slope, which lies on a flood plain that feeds San Antonio Creek which drains into the Prado Flood Control Basin approximately nine miles to the southeast (USGS 1981).

Although recent and historic-period impacts have decimated native vegetation, remnants of a formerly dominant coastal sage scrub vegetation community have been sporadically observed in the general vicinity. Signature plant species include black sage (*Salvia mellifera*), California brittlebush (*Encelia californica*), California buckwheat (*Eriogonum fasciculatum*), California sagebrush (*Artemesia californica*), deerweed (*Lotus scoparius*), golden yarrow (*Eriophyllum confertiflorum*), laurel sumac (*Malosma laurina*), lemonadeberry (*Rhus integrifolia*), poison oak (*Toxicodendron diverilobum*), purple sage (*Salvia leucophyla*), sticky monkeyflower (*Mimulus aurantiacus*), sugar bush (*Rhus ovate*), toyon (*Heteromeles arbutifolia*), white sage (*Salvia apiana*), coastal century plant (*Agave shawii*), coastal cholla (*Opuntia prolifera*), Laguna Beach liveforever (*Dudleya stolonifera*), many-



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Project Location Site
Pomona Church of the Brethren Project

Figure 1

Reference: ESRI; USGS Quad: San Dimas, California (1981)

Lewis Management Corp.

stemmed liveforever (*Dudleya multicaulis*), our Lord's candle (*Yucca whipplei*), prickly pear cactus (*Opuntia sp.*) (Williams et al. 2008:118-119). Signature animal species within Coastal Sage Scrub habitat include the kangaroo rat (*Dipodomys sp.*), California horned lizard (*Phrynosoma coronatum frontale*), orange throated whiptail (*Cnemidophorus hyperthrus*), San Diego horned lizard (*Phrynosoma coronatum blainvillii*), brown-headed cowbird (*Molothrus ater*), California gnatcatcher (*Polioptila californica californica*), California quail (*Callipepla californica*), and San Diego cactus wren (*Campylorhynchus brunnecapillus sandiegensis*) (Williams et al. 2008:118-120). Local native groups made use of many of these species (see Lightfoot and Parrish 2009).

CULTURAL SETTING

Prehistory

The local prehistoric cultural setting has been organized into many chronological frameworks (see Warren and Crabtree 1986; Bettinger and Taylor 1974; Lanning 1963; Hunt 1960; Wallace 1958, 1962, 1978; Campbell and Campbell 1935), although there is no definitive sequence for the region. The difficulties in establishing cultural chronologies for the drier portions of southern California are a function of its enormous size and the small amount of archaeological excavations conducted there. Moreover, throughout prehistory many groups have occupied the area and their territories often overlap spatially and chronologically resulting in mixed artifact deposits. Due to dry climate and capricious geological processes, these artifacts rarely become integrated in-situ. Lacking a milieu hospitable to the preservation of cultural midden, local chronologies have relied upon temporally diagnostic artifacts, such as projectile points, or upon the presence/absence of other temporal indicators, such as groundstone. Such methods are instructive, but can be limited by prehistoric occupants' concurrent use of different artifact styles, or by artifact re-use or re-sharpening, as well as researchers' mistaken diagnosis, and other factors (see Flenniken 1985; Flenniken and Raymond 1986; Flenniken and Wilke 1989). Recognizing the shortcomings of comparative temporal indicators, this study recommends review of Warren and Crabree (1986), who have drawn upon this method to produce a commonly cited and relatively comprehensive chronology.

Ethnography

Gabrielino. Although no prehistoric sites have been locally recorded, in general the project site is situated within a region occupied by the Gabrielino. The Gabrielino consisted of semi-nomadic hunter-gatherers who spoke a variation of the Takic language subfamily. The Gabrielino probably first encountered Europeans when Spanish explorers reached California's southern coast during the 15th and 16th centuries (Bean and Smith 1978; Kroeber 1925). The first documented encounter, however, occurred in 1769 when Gaspar de Portola's expedition crossed Gabrielino territory (Bean and Smith 1978). Other brief encounters took place over the years, and are documented in McCawley 1996 (citing numerous sources). The Gabrielino name has been attributed by association with the Spanish mission of San Gabriel, and refers to a subset of people sharing speech and customs with other Cupan speakers (such as the Juaneño/Luiseño/Ajachemem) from the greater Takic branch of the Uto-Aztecan language family (Bean and Smith 1978). Gabrielino villages occupied the watersheds of various rivers (locally including the Santa Ana) and intermittent streams. Chiefs were usually descended through the male line and often

administered several villages. Gabrielino society was somewhat stratified and is thought to have contained three hierarchically ordered social classes which dictated ownership rights and social status and obligations (Bean and Smith 1978:540-546). Plants utilized for food were heavily relied upon and included acorn-producing oaks, as well as seed-producing grasses and sage. Animal protein was commonly derived from rabbits and deer in inland regions, while coastal populations supplemented their diets with fish, shellfish, and marine mammals (Boscana 1933, Heizer 1968, Johnston 1962, McCawley 1996). Dog, coyote, bear, tree squirrel, pigeon, dove, mud hen, eagle, buzzard, raven, lizards, frogs, and turtles were specifically not utilized as a food source (Kroeber 1925:652).

Historic Context of Pomona (References Provided in Appendix B)

Prehistoric, Spanish, and Mexican Periods. The Gabrielino-Tongva people occupied the Pomona area with its abundant natural resources prior to the arrival of Spanish missionaries in 1769. Mexican independence from Spain in 1834 led to secularization of the missions and distribution of mission lands into large landowners. Ygnacio Palomares and Ricardo Vejar were sons of Spanish loyalists and explorers who managed cattle and horses at Rancho de las Aguas. In 1837, Mexican Governor Juan Bautista Alvarado granted 22,430 acres of former Mission San Gabriel grazing lands to Palomares and Vejar, who named the territory Rancho San Jose. The land was split between the two men, with present-day Pomona lying within both Palomares' northern half, Rancho San Jose de Arriba, and Vejar's southern half, Rancho San Jose de Abajo. As California transitioned to American statehood following the Mexican-American War in 1850, the region began a process of dynamic changes. The development of two roads running from San Bernardino through the rancho, one directed west toward Los Angeles and another south toward Temecula, previewed Pomona's future as a commercial hub.

Rancho San Jose. The project site is located within the lands of the former Rancho San Jose. After Mexico became an independent nation and secularized the Spanish mission system to curb Spanish influences, California Governor Jose Figueroa began to reapportion mission properties as land grants. In 1833, Ignacio Palomares and Ricardo Vejar, in hopes of petitioning for one of these large land grants, set off with a party of eight soldiers and several indigenous guides to survey the lands east of Mission San Gabriel. The men had served in the Mexican War of Independence and were successful cattle-runners based out of the still-small Pueblo de La Reina de Los Angeles. The eastern lands they surveyed were once part of an outpost for the mission largely used for grazing. After camping out near the creek running along the lush base of the San Jose Hills, the two appealed to the Governor Juan Bautista Alvarado for an official transfer of ownership. The appeal was approved in April 1837, and in August it was officially surveyed and platted by Alcalde Jose Sepulveda. The original Rancho San Jose grant included 15,000 acres of lands primarily used for crop-growing and sheep and cattle ranching, and whose only other occupants were Tongva peoples living on their own rancherias (none of which have been identified in the project vicinity). Vejar settled near the southern hills close to Arroyo Pedregoso, where the Old Los Angeles-San Bernardino Stage Road, Butterfield Overland Stage Road, and Southern Pacific Railroad tracks would meet. Palomares selected a site further north near the eastern slopes of the San Jose Hills, just east of present-day Ganesha Park and not far from the site of the men's original 1830s encampment. The northern and southern portions of the rancho near the two homesites became known as San Jose de Arriba and San Jose de Abajo,

respectively. Friends and extended family of the men arrived in the area soon thereafter, where they established their own homesteads. In 1840, Palomares' brother-in-law Luis Arenas also became a part-owner of the rancho when he acquired his own land grant adjoining Rancho San Jose to the west. This portion was subsequently known as the "Addition to Rancho San Jose." In 1844, the Addition, as well as the nearby Rancho Azusa which Arenas also owned, was transferred to Henry Dalton. Dalton, a successful Los Angeles merchant and land speculator, thus became part owner of Rancho San Jose with plans in mind for the subdivision of his land holdings. In 1846, Ricardo Vejar joined Dalton in petitioning the alcalde of Los Angeles for the official partitioning of Rancho San Jose. This official division of the lands would be upheld by the United States Lands Commission in 1854 after California was annexed as an American territory. However, California's 1851 Act to Ascertain and Settle Private Land Claims meant Spanish and Mexican landowners had to refile their claims through a United States District Court. As a result, an official patent for the rancho wouldn't be officially issued to Dalton, Palomares, and Vejar until 1875, with the total area of Rancho San Jose being reported at 22,340 acres (Brackett 1920:42,53,57; Lothrop 1988:20-23; Luk 2016).

With the American annexation of California and gold-seeking rush of settlers through the new state, Palomares and Vejar's lands within Rancho San Jose saw increased activity and settlement. Both men hosted men hosted many travelers in their family homes and additional buildings were constructed to accommodate guests. Above all, Rancho San Jose was a working ranch throughout its earliest years, dedicated to raising sturdy cattle to be driven to market. Many of those working on the ranch and living in scattered settlements within its territories were Mexicans and indigenous people formerly associated with the Spanish missions. Through the 1840s and 1850s, various stagecoaches and other wagon-bound travelers stopped in proximity to Palomares and Vejar's respective homesteads due to the ready availability of water. The 1860s saw a decline in activity and prosperity on the ranch lands, as persistent flooding combined with an economic depression to curb settlement and cattle-raising in the area. Local indigenous settlements were also besieged by a smallpox epidemic with many in the area dying as a result, including the daughter of Ignacio Palomares in 1863. The decline particularly impacted Ricardo Vejar, and in 1864, he transferred his holdings of Rancho San Jose de Abajo to Isaac Schlesinger and Hyman Tischler for $28,000. While Schlesinger and Tischler did not reside on the rancho, they employed Louis Phillips to administer and manage the lands in their place. Phillips made improvements to the ranch lands and maintained a careful inventory of cattle stock and ranch supplies before obtaining the title to 12,000 acres of Rancho San Jose in 1866. It was on this newly acquired land that Spadra was established as the first community in the Pomona Valley. As stagecoaches gave way to railroad travel in the 1870s, building materials, consumer goods, horses, and prospective settlers flowed into Phillips' new holding. Rancho San Jose de Arriba also enjoyed an influx of new settlers in the late 1860s into the 1870s. Up until 1873, the lands had largely remained in the Palomares family name, with grants being deeded to family and friends where they had established their own homes. American speculators also began buying large portions from the Palomares family, which ultimately were platted into tracts. The abundant water supply available in the Arroyo de San Jose and other creeks and streams to the north made settlement of this area alluring, despite being located further away from the established settlement of Spadra and the coming railroad. When the Southern Pacific Railroad laid tracks through Rancho San Jose

in 1873 and built a new station east of Spadra in the present-day territory of Pomona, it spelled the beginning of a transition of the rancho toward becoming a contemporary American town (Brackett 1920:109-110; Lothrop 1988:24-32).

American Foundations in Pomona. Phillips' most impactful contribution to Pomona's history was when he ultimately sold nearly three thousand acres to the Pomona Land and Water Company (PLWC) in 1882. The company was organized in 1882 to harness water and to facilitate sale of land to prospective Pomona residents. Booming land speculation and organized residential settlements led to the formal incorporation of Pomona (named after the Roman goddess of fruitful abundance) in 1888. Arrival of the railroads in the 1880s facilitated immigration of newcomers to Pomona and stimulated growth in the emerging citrus industry. In the 1870s and 1880s that vast acreages of citrus groves were being cultivated by Pomona settlers. The Pomona citrus industry's place along two major railroad lines at the heart of Southern California's broader citrus-growing empire made the town an opportune and alluring settlement during western American expansion through the turn of the twentieth century. By 1890, the city reported 3,634 people living within its limits. By 1911, Pomona had become a charter City.

Mid-Century Expansion. Internal development and modernization characterized mid-twentieth century Pomona's growth as an American city. Despite being an overwhelmingly white population, the twentieth century saw an influx of African Americans, Chinese, and, most notably, Japanese and Latino laborers. While Japanese immigrants were the largest minority group in Pomona until the 1920s, state legislation restricted their numbers in subsequent years so that Latinos the predominant demographic of citrus industry workers. Flooding concerns necessitated the 1924 construction of Puddingstone Dam northwest of Pomona, simultaneously creating a 250-acre lake for the region's recreational usage. The Fox Theater in downtown Pomona opened in 1931 as a premier cinematic venue. The 1950s and 1960s saw the construction of the 10 Freeway through Pomona with the rise of the personal automobile, construction of new civil service buildings in and around the downtown area, and the emergence of shopping centers and malls. Special interest groups and social welfare organizations arose for purposes ranging from women's social clubs to childcare for the physically handicapped.

The city of Pomona and the surrounding towns founded upon rich agriculture saw the continued success of local citrus production translate into a multibillion-dollar industry by the late 1930s. The agricultural character Pomona was capitalized upon with the inauguration of the Los Angeles County Fair, and the inaugural fair opened in October 1922 to nearly 50,000 residents and visitors. Pomona solicited volunteer services to aid defense preparation during World War II, and one in every ten residents received some form of defense training. Over 3,000 men between ages twenty-one and thirty-six registered for the draft from Pomona and neighboring cities. The Los Angeles County Fairgrounds was appropriated for use as a Japanese detention center during the war, then as an army training center. After the war, Pomona saw increased commercial, civic, and infrastructural development as the economy shifted away from agricultural dominance to consumer culture. Returning war veterans, continued immigration to California, rising land values from commercial development, and construction of new residences changed the landscape of the city. Like other former agricultural hubs in Southern California Pomona grew into a bedroom

community after World War II. Its population expanded from 13,505 residents in 1920 to 67,157 residents in 1960.

Pomona Today. In recent decades, Pomona's evolution into a modern-day city was driven by expansive development and further diversification. City residences and business began to spread toward the north and east, toward neighboring La Verne and Claremont. Construction of the Route 60 Freeway, colloquially known as the "Pomona Freeway," cut through the southern part of the city, offering new routes of transportation to the east and west and, consequentially, new business opportunities along the route. Major institutions such as Cal Poly Pomona and Pomona Valley Hospital Medical Center also saw significant improvements paralleling the city's own growth. These expanded institutions were necessitated by the large influx of residents from Los Angeles and its surrounding areas of high population to suburb cities like Pomona beginning in the 1960s. Conditions for racial minorities living in the area, specifically Latinos and African Americans, have changed drastically. In the latter half of the century, Latino communities once accustomed to abundant working opportunities and decent wages in citrus production saw the market's decline and experienced a transition to the less lucrative industrial labor force. Meanwhile, the Latino population became the majority demographic after 1960, and many Latinos have held political positions of prominence. Social welfare groups like the Pomona chapter of the Urban League also worked to provide food, shelter, and civil rights activist support to improve living conditions for African Americans in the city. Today, Pomona is the diverse home to over 151,000 residents, making up the seventh largest city in Los Angeles County.

PERSONNEL

BCR Consulting Principal David Brunzell, M.A., RPA acted as the Project Manager and Principal Investigator for the current study. Mr. Brunzell wrote the technical report with contributions from Principal Architectural Historian Kara Brunzell, Historian Dylan Williams, and Archaeologist Nicholas Shepetuk. Ms. Brunzell completed Department of Park and Recreation (DPR) 523 Forms and evaluated the buildings for California Register of Historical Resources (California Register) eligibility. BCR Consulting Archaeological Field Director Joseph Orozco, M.A., performed the cultural resources records search at the South Central Coastal Information Center (SCCIC) at California State University, Fullerton. Mr. Williams completed additional research through various archives and repositories, performed the pedestrian field survey, and identified and recorded the historic-period buildings.

METHODS

This work was completed pursuant to CEQA, the Public Resources Code (PRC) Chapter 2.6, Section 21083.2, and California Code of Regulations (CCR) Title 14, Chapter 3, Article 5, Section 15064.5. The pedestrian cultural resources survey was intended to locate and document previously recorded or new cultural resources, including archaeological sites, features, isolates, and historic-period buildings, that exceed 45 years in age within defined subject property boundaries. The subject property was examined using 15 meter transect intervals, where accessible. This study is intended to determine whether cultural resources are located within the subject property boundaries, whether any cultural resources are significant pursuant to the above-referenced regulations and standards, and to develop

specific mitigation measures that will address potential impacts to existing or potential resources. Tasks pursued to achieve that end include:

- Cultural resources records search to review any studies conducted and the resulting cultural resources recorded within a one-mile radius of the subject property boundaries
- Additional research through various local and regional resources
- Systematic pedestrian survey of the entire subject property
- Evaluation of California Register eligibility for any cultural resources discovered
- Development of recommendations for cultural resources documented within the subject property boundaries, following CEQA
- Completion of DPR 523 forms for any cultural resources identified.

Records Search

On June 26, 2019 a records search was conducted at the SCCIC at California State University, Fullerton. This archival research reviewed the status of all recorded historic and prehistoric cultural resources, and survey and excavation reports completed within one mile of the current subject property. Additional resources reviewed included the National Register of Historic Places (National Register), the California Register, and documents and inventories published by the California Office of Historic Preservation. These include the lists of California Historical Landmarks, California Points of Historical Interest, Listing of National Register Properties, and the Built Environment Resources Directory (BERD).

Additional Research

BCR Consulting performed additional research by conducting interviews with Pomona Church of the Brethren personnel, and through records of the General Land Office Maintained by the Bureau of Land Management (including plat maps), the Los Angeles County Assessor, the Los Angeles County Library, and through various Internet resources. Aerial photographs were reviewed through historicaerials.com and through the University of California at Santa Barbara Special Collections library to confirm cited historical information.

Field Survey

An intensive-level cultural resources field survey of the subject property was conducted on July 8, 2019. The survey was conducted by walking parallel transects spaced approximately 15 meters apart across 100 percent of the subject property, where accessible. Cultural Resources were recorded on DPR 523 forms. Approximately 50 percent of the subject property is paved and/or built. The remaining 50 percent has been landscaped. Visibility is low. The entire property has been subject to excavation to remove a former orange grove and to construct the church and residences. Digital photographs were taken at various points within the subject property. These included overviews as well as detail photographs of all cultural resources. Cultural resources were recorded per the California OHP *Instructions for Recording Historical Resources* in the field using:

- Detailed note taking for entry on DPR Forms (see Appendix A)
- Hand-held Garmin Global Positioning systems for mapping purposes

- Digital photography of all cultural resources (see Appendix A).

RESULTS

Records Search

Data from the SCCIC revealed that 21 cultural resource studies have taken place resulting in the recording of 23 cultural resources identified within one mile of the subject property. The Church of the Brethren has been subject to one previous identification and evaluation effort from 2004 that designated it P-19-188186, and recommended it potentially significant for its architecture (Hetzel 2004). The records search results are summarized in Table A.

Table A. Cultural Resources Within One Mile of the Subject Property

Resource, Description and Distance	Recorded by (Date)	Eligibility Status
P-19-001552: Casa Primera Adobe (1 mile NE)	D.L. McAllister (1988)	1S (NR Listed)
P-19-150398: Historic single family residence (1/8 mile NE)	F. Smith (1993)	6Y (Ineligible for NR)
P-19-150399: Historic single family residence (1/4 mile NE)	F. Smith (1993)	6Y (Ineligible for NR)
P-19-150400: Historic single family residence (1/8 mile NE)	F. Smith (1993)	6Y (Ineligible for NR)
P-19-150401: Historic single family residence (1/4 mile NE)	F. Smith (1993)	6Y (Ineligible for NR)
P-19-150402: Historic single family residence (1/2 mile NE)	F. Smith (1993)	6Y (Ineligible for NR)
P-19-150403: Historic single family residence (1/2 mile NE)	F. Smith (1993)	6Y (Ineligible for NR)
P-19-150404: Historic single family residence (1/2 mile NE)	F. Smith (1993)	6Y (Ineligible for NR)
P-19-150405: Historic single family residence (3/4 mile NE)	F. Smith (1993)	Status Not Available
P-19-150406: Historic single family residence (3/4 mile NE)	F. Smith (1993)	6Y (Ineligible for NR)
P-19-150407: Historic single family residence (3/4 mile NE)	F. Smith (1993)	6Y (Ineligible for NR)
P-19-150408: Historic single family residence (5/8 mile NE)	F. Smith (1993)	Status Not Available
P-19-180714: Barbara Greenwood Kindergarten (1 mile NE)	T. Sitton and R. Hatheway (1977)	1S (NR Listed)
P-19-180726: La Casa Primera de Rancho adobe (1 mile NE)	E. Zilles (1974)	1S (NR Listed)
P-19-187025: Multiple family residence (1/4 mile NE)	D. Kane (1999)	6Y (Ineligible for NR)
P-19-187082: Pomona City Stable (3/4 mile SE)	M. Griffin (2004)	1S (NR Listed)
P-19-188027: Malosos Place commercial bldg. (3/4 mile SE)	C. Tibbet and S. Carmack (2007)	6Z (Ineligible for NR, CR, or Locally)
P-19-188028: Flamin' Willie's Chili (3/4 mile SE)	C. Tibbet and S. Carmack (2007)	6Z (Ineligible for NR, CR, or Locally)
P-19-188029: Emerald Crest commercial bldg. (3/4 mile SE)	C. Tibbet and S. Carmack (2007)	6Z (Ineligible for NR, CR, or Locally)
P-19-188032: Commercial building (1 mile SE)	C. Tibbet and S. Carmack (2007)	6L (Ineligible locally, may warrant consideration during planning process)
P-19-188036: Western Mobile Garden Trailer Park (3/4 mile SW)	R. Goodwin and C. Tibbet (2007)	Status Not Available
P-19-188186: Pomona Church of the Brethren (in subject property)	C.J. Hetzel (2004)	Recommended Potentially NR Eligible
P-19-188909: Historic single family residence (1/4 mile E)	S. Campbell (2007)	6Y (Ineligible for NR)

NR=National Register, CR=California Register

Table B. Cultural Resource Reports Within One Mile of the Subject Property

Cultural Resource Report
LA-389: Cultural Resources Reconnaissance of Five Areas in the Frank G. Bonellli Regional County Park Los Angeles County, California (Ron Bissell 1988)
LA-761: An Archaeological Records Search and Field Survey Mountain Meadows Property City of Pomona Los Angeles County, California (Ronald D. Douglas 1980)
LA-2665: Cultural Resource Overview and Survey for the Los Angeles County Drainage Area Review Study (Marie Cottrell, James N. Hill, Stephen Van Wormer, and John Cooper (1985)
LA-2882: Cultural Resources Investigations, Site Inventory, and Evaluations, the Cajon Pieline Project Corridor, Los Angeles and San Bernadino Counties, California (1993)
LA-2932: Negative Archaeological Survey Report Provide High Occupancy Vehicle Lanes on Interstate 10 From the Junction of State Route 57 (SR 57/I-210) in the City of Pomona to the Los Angeles/san Bernardino County Line (Robert J. Wlodarski 1993)
LA-2970: Cajon Pipeline Project Draft Environmental Impact Statement Environmental Impact Report (Pat Chamberlaine and Jean Rivers-Council 1992)
LA-3508: Historical Resource Overview and Survey for the Los Angeles County Drainage Area Review Study (Stephen R. Van Wormer (1985)
LA-3779: Historic Property Survey Report Provide High Occupancy Vehicle Lanes on Interstate 10 Between Sr 57/i-210 and the Los Angeles County/san Bernardino County Line in Los Angeles County 07-la-10-41.7/48.3 (Francesca Smith 1994)
LA-4835: Cultural Resources Inventory Report for Williams Communications, Inc. Proposed Fiber Optic Cable System Installation Project, Los Angeles to Riverside (Shahira Ashkar 1999)
LA-4957: Cultural Resource Assessment for the AT&T Wireless Services Facility Number C787, County of Los Angeles, California (Curt Duke 2000)
LA-5726: Negative Archaeological Survey Report (Barbara Sylvia 2001)
LA-5925: Historic Property Survey Report Provide High Occupancy Vehicle Lanes on Interstate 10 SR57/I-210 and the Los Angeles County/san Bernardino County Lines in Los Angeles (Francesca Smith 1994)
LA-8665: Historic Resources Assessment: Downtown Pomona Demolition Project, City of Pomona, Los Angeles County, California (Casey Tibbbet and Shannon Carmack 2007)
LA8828*: Cultural Resources Records Search and Site Visit Results for Royal Streel Communications, Llc Candidate LA2337A (i-10 at White), 875 West Orange Grove, Avenue, Pomona, Los Angeles County, California (Wayne Bonner 2007)
LA-10038: Results of an Archaeological Monitoring Program for the C-Crest Partners LLC Property, 1280 Loma Vista Street, Pomona, Los Angeles Co., California. (Jeanette McKenna 2004)
LA-10853: Historic Preservation Environmental Review Site(s); 991 N. Huntington Blvd. (Karen Simpson 2007)
LA-10958: Verizon Cellular Communications Tower Site- Estrella LTE 1101 W. McKinley Avenue, Pomona, CA 91768 (Jeremy Hollins and Christia Chang 2010)
LA-11299: Section 106 Review for Pomona Transit Center Electric Bus Charging Station Project (Sandra Campbell 2010)
LA-11350: Pomona - A Centennial History (Gloria Ricci Lothrop 1988)
LA-11351: Smallpox, Poverty and Death at Ganesha Park, Mt. San Antonio Historian (John Belmont and Timothy Seymour 1979)
LA11352: Request to Designate Ganesha Park as a Single Historic Landmark; Applicant, Mickey D. Gallivan of the Historical Society of Pomona Valley (Matthew Bassi 2004)

*Included a portion of the subject property.

Additional Research (see Appendix A for References)

Alkire Ranch. In 1890, Josiah Alkire purchased thirteen acres of land formerly held by the Palomares family from George Rhorer for $13,000 and lived there with his wife and sons. Alkire had been a prosperous grocer from St. Louis before arriving and purchasing the property, which already had mature orange groves. Collaborating with the neighboring Phelan family in 1895, the Alkires applied for a right of way to establish a water tunnel through their respective properties. The tunnel tapped into several subterranean streams originating in the foothills and provided irrigation for numerous estates including the subject property.

Pomona Fellowship Church of the Brethren. The Pomona Church of the Brethren congregation began in a small one-room building on the corner of Gibbs Street and Monterey Avenue in 1907, where congregants from the neighboring Lordsburg (present-day La Verne) church were trying to formally organize a church. The church's first building was electrified in 1908 and had its auditorium expanded in 1910. The cornerstone indicates it was rebuilt in 1924. In 1936, a fire irreparably damaged the building and forced relocation to an existing church building in Pomona.

In 1946, Rev. Harry Thomas and his wife Dortha (who had pastored the congregation before the war) returned to Pomona and took over leadership of the congregation from Rev. John Deeter and his wife. Pomona's population was growing rapidly, and the congregation's membership had risen to 250. The congregation was also on solid financial footing, and a building committee was formed to plan a new church in 1947. The Pomona Church of the Brethren purchased nine acres of the former Alkire property and retained Louis S. Gamble and Associates to design a new church building. The large tract of land was purchased with the intention of subdividing the surrounding acreage for residential developments while retaining the rights to two existing houses southeast of the new church. Funds from leasing or selling subdivisions would pay for the large land purchase and general church maintenance. When built in 1949, the new building had a social hall (initially serving as the chapel), a kitchen, pastor's study, and an educational wing. While a professional architect was consulted for the building design, some of the construction was performed by volunteer congregants, both men and women. Budgetary constraints limited the size of the building: the 1950 rendering indicates that architect Louis S. Gamble and Associates designed a symmetrical building with the steeple and main entrance centered between two projecting wings. Only the east wing and the connecting hyphen (center wing) were built during the first phase of development. The 9,000 square foot building cost $45,000. In all likelihood, the congregation intended to construct the west wing as designed by Gamble after securing additional funds. The congregation's membership gradually increased, and in 1957 planning began to expand the church facilities. Plans were made for a new sanctuary, chapel, and space for Sunday school and choir rehearsal. The original Gamble plans were not abandoned (Louis S. Gamble had died but the architectural firm was still designing churches.) The congregation hired Frick & Frick Architects to design the addition. The foundations for the extensions were laid in January 1959, and in May the cornerstones of the church's two previous buildings were laid along the foundation of the new sanctuary. In September the sanctuary was formally dedicated during Sunday service with over five hundred congregants in attendance. The original sanctuary was converted to use as a social hall.

The Pomona Church of the Brethren underwent many changes following the completion of construction. In 1975, the Pomona School District began leasing space in the church for a childcare center. The parsonage to the southeast of the church underwent many minor renovations such as reroofing or plumbing installations, as important congregants, esteemed visitors, and even community members used them for temporary living over the subsequent decades. In 1978, a garage unit was built on the church parcel for usage by the church and the private parsonage. In 1980, the Fellowship Church, a Church of the Brethren congregation that had separated from the La Verne church, approached the Pomona Church of the Brethren with the proposal to merge the two congregations. The Fellowship Church had lost most of its ministers and its congregation size had shrunk. The Pomona congregation, also facing dwindling membership and outsized by their facilities, agreed to the merger. In 1981, the newly formed joint congregation adopted the name of the Pomona Fellowship Church of the Brethren and used the funds from selling the Fellowship Church's property for an Endowment Fund intended for community outreach. The congregation has remained a vital part of the Church of the Brethren denomination and community. In 1997, the church exterior was repainted, as well as the interior spaces like the kitchen and nursery. The Eden Evangelical Church, a Korean ministry, moved into the church facilities in the late 1990s and remain tenants in 2019. With declining youth membership, the church sponsored annual summer camps for neighborhood children as a part of outreach ministry.

Church Building/Architects and Builders. Louis S. Gamble's architectural design business was based in Pasadena, California before relocating to Long Beach in the 1940s. Louis Samuel Gamble was born in Iowa in 1894 and raised on a farm. He had left school by the age of 16, married Mabel Bell in 1915, and the couple soon had a daughter. Despite partial loss of hearing and sight, he managed a general store in his early twenties and then worked in a lumber yard. The Gamble family relocated to Pasadena, California in the early 1920s, and Louis began working as a building contractor. In the 1930s, he was president of Parker & Gamble, a firm that focused on residential construction. There is no indication that Gamble formally studied architecture, and apparently learned building design on the job. By the early 1940s, Louis S. Gamble and Associates was based in Long Beach and advertised a specialty in building design. The firm began to focus on designing churches throughout Southern California from in the late 1940s and continued into the 1960s. Church projects include the Alhambra First Baptist Church (1948), and the First Assembly of God Church (1950) in Long Beach. In 1949, they designed Ontario First Methodist Church, Hanford Church of the Nazarene, and a church in Van Nuys in addition to Pomona Church of the Brethren. The firm also continued to design residential buildings in Pasadena and Arcadia. Louis S. Gamble and Associates designed the Salt Lake City First Baptist Church (1951), which is a contributor to the National Register Salt Lake City East Side Historic District, but none of the firm's California designs appear to have been recognized for architectural significance. Louis Gamble died in 1952, and the firm continued to work on church designs.

Frick & Frick Architects was a Pasadena-based firm organized by twin brothers Arthur and Edward Frick in 1946. The Fricks were both born in Hollywood before permanently relocating to Pasadena. They attended Pasadena High School before earning bachelors' and masters' degrees in architecture from University of California, Berkeley. During World War II, Edward Frick was assigned to the Air Force as an analyst while Arthur served in the Navy, eventually rising to the rank of Commander in the Reserve. In their architectural

careers, they contributed to designing numerous school, religious, civic, and commercial buildings including the Linda Vista fire station, Pasadena's First Nazarene church, and five buildings for Pasadena College. In the late 1950s and early 1960s, the Fricks took on additional partners, eventually becoming Frick, Frick, Tipton & Jette. In 1966, the firm won Southern California Edison Company's "Award of Excellence" for designing their new headquarters in Arcadia. The building was innovative for its complete electrification and 10,000 square feet of executive suites and lounge areas, as well as the decorative white terra cotta panels framing bronze, and glare-reducing glass windows along the exterior.

The Edwards Construction Company was a local building firm from Pomona organized by Gerald Edwards in the early 1950s. In that time, Edwards had served as president and state director of the Building Industry Association. Edwards Construction had been charged with many large-scale commercial building projects throughout the greater Los Angeles area, including the 11, 800 square-foot Chino Valley Bank and the 29,100 square-foot Westlake Plaza and Professional Building.

Buildings #1 and #2. The house (Building #1) appears to have originally been constructed about 1922 for the Copeland family. During that period the neighborhood was on the outskirts of Pomona, with widely-spaced residences surrounded by citrus orchards. Belle (1863-1946) and Thomas B. Copeland (1856-1928) were Iowa residents who relocated to Pomona in about 1899, when their son Ross was ten. The family moved to Los Angeles and Thomas worked at various jobs until the couple moved back to Pomona in the early 1920s. By 1922, Belle and Thomas Copeland lived at 1021 West Orange Avenue. A few years later the address had changed to 891 West Orange Grove Avenue. Thomas Copeland died in 1928, and Belle moved to a nearby house. By 1931 L. (Lewis) Clair and Elyse M. Hammond had moved into 891 West Orange Grove Avenue. L. Clair Hammond was born in New York in 1892. The Hammonds appear to have constructed the small house next door (Building #2) as a garage in 1932. As an adult he lived in California and worked as an appliance salesman. Elyse M. Hammond was born in Iowa and worked as a real estate broker. The couple lived in the house for only a few years before returning to Los Angeles.

By 1940, orange rancher Edwin T. Wells and his wife Dorothy owned and lived in the house. The elder Wells's were in their late 40s, and their son James was in his mid-teens. The family had lived in Pasadena before coming to Pomona to grow oranges, and by 1949 had returned to Pasadena after selling the house to the Church of the Brethren.

In 1949, the Pomona Fellowship Church of the Brethren (then called the Pomona Church of the Brethren) purchased nine acres of land along Orange Grove Avenue for the purpose of building a new church building on roughly three acres and subdividing the rest. This development implies that the subject property was included in the properties titled to the Pomona Church of the Brethren, with the existent residential units becoming a parsonage of the church. In the years since, the parsonages have served as interim residences for church congregants and community tenants.

The house was altered as needed to accommodate more residents. The address of both buildings was changed again to 861 W. Orange Grove Avenue at an unknown date. Building #2 was converted from a detached garage into a single bedroom dwelling in 1952.

Additionally, in 1954 a 120 square-foot bedroom was added to the rear of Building #1. The church utilized both units as part of the parsonage. In 1978, a separate detached garage unit was built behind the parsonages to be used by both the church and the private residences. Reverend Kurtis Naylor and his wife Gladys lived on the property in the mid-1970s. In 1980 and 1981, the church sponsored Vietnamese families by allowing them to stay in the parsonage for several months. Today the residence remains in use between church clergy and the Pomona community.

Field Survey

During the field survey, BCR Consulting personnel carefully inspected the subject property for evidence of historical resources. Surface visibility was approximately 30 percent within the subject property. Ground disturbances related to surface erosion, building and road construction, and landscaping were severe. Three historic-period buildings were identified, including the Pomona Church of the Brethren (designated P-19-188186), and two residences, temporarily designated as Building #1 (the main residence), and Building #2 (a converted garage). No other cultural resources were identified. References for this section are provided in Appendix A.

P-19-188186: Pomona Church of the Brethren. The church is a 19,604 square-foot single-storied building, with a sanctuary occupying the west wing, the church offices occupying the central wing, and various meeting rooms in the east wing. The building is situated on a three-acre parcel that includes a large parking lot. An artificial turf soccer field enclosed by green fencing and a cell tower (disguised as a tall pine tree) are located behind the church facilities, to the north/northwest. On the two parcels immediately southwest adjacent to the church, there are two residential units also associated with the Pomona Fellowship Church of the Brethren. A detached garage behind one of the residential units shares the parcel with the church building. Since the garage is less than 45 years old, it is not subject to further consideration. The church building, which was developed in stages, features an irregular plan with several connected wings. The south portion of the building closest to the street, features the steeply pitched gabled roofs associated with traditional ecclesiastical architecture, while the rear (north) wings are flat-roofed. The west wing sanctuary (1959) exhibits a Modernist interpretation of church architecture, while the original (1949) church is designed in a more traditional style with references to the Tudor Revival style.

The projecting west wing is the most prominent section of the building. In addition to being closer to the street, it is taller and larger in plan than the other wings. Its steeply-pitched roof is topped with a simple cross at the south end of the ridgeline. The wing is clad in a combination of stucco and brick with brick details. The tall main (south) façade has a projecting stucco panel at its center where stain-glass windows would be placed on a traditionally-designed church. It is flanked by recessed areas clad in yellow roman brick, and four nearly square windows within the recesses face north and south. The façade lacks other fenestration. The south end of the wing's east and west elevations feature stucco walls with steel casement windows. The large diamond-shaped panes are fitted with bright-colored textured glass, and window sills are brick. The north end of the wing is recessed, and an entrance to the sanctuary in the recessed section of the west elevation is sheltered by a projecting shed roof. The entry porch walls are clad in manufactured stone. An entrance on the east elevation is sheltered only by the main roof. The rear section of the

east elevation is stucco with brick trim and decorative buttresses executed in brick. Narrow windows have brick accents and steel sash. The main entrance to the sanctuary is located at the junction between the original church and the west wing, and is oriented toward the corner of the building so it faces southeast. It is fitted with two sets of double doors. Its projecting canopy features a heavy flat roof with cornice and is supported by square posts.

The northwest wing is behind the sanctuary. Most of its roof is flat, with a side-gabled section near its south end that is extends from the original church. The northwest wing is primarily utilitarian in character, with stucco cladding and varied fenestration. The original church is T-shaped, with ecclesiastical architecture at the south near the street and simpler facades at the rear (north). It is clad in stucco and brick with wood trim, and has a flared gable roof. The cross-gabled center wing connects to both the 1959 and 1949 sanctuaries. Its large steeple rests on the ridgeline behind the original main entrance. The steeple's tall metal spire rests on a tiered wooden base with louvered vents. The entrance is sheltered by a projecting front-gabled roof. Its gable end features decorative half-timbering which evokes the Tudor Revival style. The entrance is fitted with modern aluminum-frame glazed doors. A covered walkway leading from the entrance to the east wing is sheltered by a less steeply-pitched section of roof. Wood posts with shaped brackets form a colonnade.

The southeast wing is the original sanctuary. It has a small spire near the south end of its ridgeline. Three traditional stained-glass windows with pointed-arch shape adorn the south elevation. There is a brick planter below the windows that supports the church sign. There is a recessed entryway to the east of the south façade fitted with a paneled wood door. The west elevation lacks ornament. Its most prominent feature is a large brick chimney with decorative brickwork near its center. Simple rectangular windows openings are fitted with vinyl replacement windows. The east elevation of the southeast wing has a central flat-roofed volume flanked by two projecting gabled volumes. Original fenestration consisting of double-hung multiple light wood sash is present at the south end of the façade, but most windows have been replaced with vinyl sash. There are two entrances, and the projecting gabled volumes feature flared eaves, louvered vents at the gable end, and Tudor Revival-style decorative wood trim. The flat-roofed northeast wing has paired windows fitted with vinyl replacement sash and a large chimney on its east elevation. There is a pair of modern aluminum frame glazed doors on its east elevation. The northeast wing lacks decorative features and references to Tudor Revival architecture.

861 W. Orange Grove Avenue Building #1. The rectangular-plan Tudor Revival house is single story with a steeply pitched cross-gabled roof and narrow eaves with exposed rafter tails. The yard is landscaped with mature trees and lawn. The house is clad in stucco, and fenestration consists of multiple-light casement and fixed windows in rectangular openings. Its asymmetrical main façade is on the south, and features steeply-pitched projecting gables of different sizes. There is a large picture window under the east gable and a bay window with its own diminutive roof under the west gable. Its main entrance is in the east gable, and faces west. There is a secondary entrance in the adjacent recessed volume that is fitted with casement French doors. A set of concrete steps leads to a raised concrete platform adjacent to these entryways, which is enclosed in a low brick wall. An entrance on the west (side) elevation is also accessed by a set of concrete steps.

861 W. Orange Grove Avenue Building #2. The single-story building is square in plan with a moderately-pitched front-gabled roof and narrow eaves with exposed rafter tails. It is just northwest of the main house on the parcel, for which it originally served as a garage. It is clad in stucco. Fenestration consist of vinyl replacement sash with interior muntins. Its primary entrance is at grade left of center on the south (main) façade. A secondary entrance on the north elevation is fitted with a wood panel door, and there is an original double-hung wood sash window adjacent. The building lacks decorative features or references to any particular architectural style.

SIGNIFICANCE EVALUATIONS

During the field survey, three historic period buildings were identified. CEQA calls for the evaluation and recordation of historic and archaeological resources. The criteria for determining the significance of impacts to cultural resources are based on Section 15064.5 of the *CEQA Guidelines* and Guidelines for the Nomination of Properties to the California Register. Properties eligible for listing in the California Register and subject to review under CEQA are those meeting the criteria for listing in the California Register, or designation under a local ordinance. Please note that the Church of the Brethren has been subject to one previous identification and evaluation effort in 2004. During this effort it was designated P-19-188186, and the evaluator recommended it potentially significant for its architecture (Hetzel 2004). That study did not address the historic-period houses. Under CEQA (PRC Section 5024.1(g), significance evaluations that are over five years old are typically updated to "identify historic resources which have become eligible or ineligible due to changed circumstances…". As a result, BCR Consulting re-identified and evaluated the Pomona Church of the Brethren as well as two historic-period houses within the subject property boundaries for significance.

Significance Criteria

California Register of Historical Resources. The California Register criteria are based on National Register criteria. For a property to be eligible for inclusion on the California Register, one or more of the following criteria must be met:

1. It is associated with the events that have made a significant contribution to the broad patterns of local or regional history, or the cultural heritage of California or the U.S.;
2. It is associated with the lives of persons important to local, California, or U.S. history;
3. It embodies the distinctive characteristics of a type, period, region, or method of construction, represents the work of a master, possesses high artistic values; and/or
4. It has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California, or the nation.

In addition to meeting one or more of the above criteria, the California Register requires that sufficient time has passed since a resource's period of significance to "obtain a scholarly perspective on the events or individuals associated with the resources." (CCR 4852 [d][2]). The California Register also requires that a resource possess integrity. This is defined as the ability for the resource to convey its significance through seven aspects: location, setting, design, materials, workmanship, feeling, and association.

California Register and Pomona Landmark Designation Evaluations

P-19-188186: Summary of Previous Evaluation. In 2004, a DPR 523 form documenting property was produced pursuant to Section 106 compliance for a telecommunications project. Although Christopher J. Hetzel, who prepared the form, is not on the CHRIS consultants list and no information about his qualifications could be obtained, he appears to have regularly worked in the Los Angeles area as an architectural historian. This study's methodology is typical in many respects of compliance-driven historical evaluations but does not follow the standards set forth by California OHP's "Instructions for Recording Historical Resources" and would be unlikely to stand up to professional peer review.

The consultant researched the construction history of subject property, but did not discover information about its original architect. The preparer did not review the circa 1950 rendering produced by the original architect which showed the original planned design of the building. His assertion that an engineer designed a building appears to be an error or incomplete statement, and though he names that individual he does not provide any information about his career. He identified the building's architectural style as "Modern English Gothic Revival," a term that is not found in architectural history texts or commonly used by California architectural history practitioners. He may have intended to communicate the idea that the building exhibits a combination of Modernism and Gothic Revival architectural features, but the does not explain or expand upon this architectural classification. He does not refer to texts or websites that define the style or cite other built examples. In his extremely brief evaluation section, he does not distinguish between the Modernist 1959 volume and the much more traditional architecture of the original, asserting that the entire property is characterized by "modernistic application of the English Gothic revival style." He does not outline the features that marked the building as a significant example of this style. He asserts that because the building is one of only a few mid-century examples of this specific style in the neighborhood it is architecturally significant. He does not provide a list of character defining features.

No historic context of the region or city is provided, nor was any history of the denomination or congregation undertaken. Evaluations under the criteria for historical significance are conclusory statements unsupported by historical facts and fail to meet professional standards. Although the study was performed pursuant to Section 106, the property has not been added to the BERD, indicating that the study may not have received concurrence from OHP. For these reasons, this study reevaluates the property rather than merely updating the previous study.

California Register Evaluation for P-19-188186: Pomona Church of the Brethren. Criterion 1: The Pomona Fellowship Church of the Brethren is not associated with events that have made a significant contribution to the broad patterns of our history. Originally constructed on the subject property in 1949 and expanded in 1959, the church is generally associated with the mid-century population growth of Pomona and concurrent expansion of civic institutions. Pomona has roughly a dozen properties that are listed on the National Register of Historic Places (NRHP), a similar number on a list of local landmarks, and about 1800 resources (including historic district contributors) listed on the BERD. Almost all of the buildings listed or determined eligible were constructed prior to 1945. Most postwar properties in Pomona that have been the subject of evaluation have been found ineligible,

although about a dozen houses constructed in the postwar era are district contributors according to the BERD. Postwar institutional properties that have been listed or otherwise recognized include the 1953 New Trinity Methodist Church (a contributor to the NRHP Lincoln Park Historic District) and the 1969 Civic Center Plaza, both of which are significant for their architecture. Pomona's most important postwar historic contexts are the construction of the 10 freeway, the associated transformation of the region by the personal automobile, and demographic change in what had been a majority-white agricultural community prior to World War II. Research has not revealed any previously identified resources associated with these themes. Nor has research revealed that the church is significant within any of these contexts. The congregation had its roots in early-twentieth century Pomona and appears to have continued to draw its members primarily from the local white population after the demographics of the community changed. Therefore, the property is not significantly associated with these or any other historic contexts and is recommended not eligible to the California Register under Criterion 1.

Criterion 2: The Pomona Fellowship Church of the Brethren is not associated with the life of a person important to our history. The early leaders of the congregation were prominent within that milieu, but research has not indicated any lasting impact on local history or on the history of the Church of the Brethren as a denomination. Therefore, the property is recommended not eligible to the California Register under Criterion 2.

Criterion 3: The Pomona Fellowship Church of the Brethren is not significant for its architecture. The original design by Louis S. Gamble and Associates was a traditional church building that incorporated the features (kitchen, classrooms) a mid-century congregation required for its varied activities. Using modest materials like stucco and wood trim, and incorporating only small areas of stained glass, it lacked the colossal proportions and lavish materials often utilized to create the statement buildings favored by wealthy religious organizations. The original design, however, was harmonious and carefully-proportioned. It evoked English architecture with its use of rustic Tudor-style details including half-timbering and other wood trim, stained glass windows in pointed-arch openings on the main façade, and leaded-glass windows with small panes flanking the entrance. The Gamble design's west wing, however, was not constructed in 1949, so the original church as-built had an unbalanced appearance, with its decorative entry near the east end of the building rather than centered as in the original plan. The 1957-1959 expansion disrupted the original design. Although the new Frick & Frick sanctuary was in the original location chosen for the west wing, it was taller, larger, sited closer to the street, and tied in clumsily with the east wing. Out of scale with the balance original design, the 1959 sanctuary appears to have been designed without reference to the existing building. It projects a utilitarian form of Modernism at odds with the more traditional idiom of the original building, failing to incorporate features like pointed-arch windows or a flared roof and using yellow brick rather than the red of the original building. These choices mean that the new and original wings have an ad hoc quality and do not read as a single building. Nor is the 1959 sanctuary architecturally significant in its own right. Although overtly Modern with its pebbled-glass colored windows at the side and nearly invisible main-façade windows, it is a timid expression of the style lacking the bold roof forms, avoidance of ornament, and expressed structure found in architecturally significant Modernist churches. For these

reasons, the property is recommended not eligible to the California Register under Criterion 3.

Criterion 4: In rare instances, buildings themselves can serve as sources of important information about historic construction materials or technologies and be significant under Criterion 4. The church is a common and well-understood type of building and does not appear to be a principal source of important information in this regard.

City of Pomona Historic Landmark Designation Criteria for P-19-188186: Pomona Church of the Brethren. An improvement, natural feature, or site may be designated an Historic Landmark by the Historic Preservation Commission and City Council and any area within the City of Pomona may be designated an Historic District pursuant to Subsection E of this Section, if the building or majority of buildings (in a district) are fifty (50) or more years old or of exceptional quality if less than fifty (50) years old, and it meets one or more of the following criteria:

1. It exemplifies or reflects special elements of the City of Pomona's cultural, social, economic, political, aesthetic, engineering, architectural, or natural history;

The Pomona Fellowship Church of the Brethren does not exemplify or reflect special elements of local history. Although the church building is generally associated with local population growth in the postwar period (as discussed under Criterion 1 above) extensive research has not revealed exemplification of any "special elements" of Pomona's social or cultural history. It was one of many local churches, and review of the historical record has not revealed that it was more important than other local churches, or that it produced any lasting impact on local history. Likewise, its architectural and aesthetic features are quotidian rather than special (as discussed at length under Criterion 3 above); its primary development took place in 1949 with a major addition in 1959. Designed by different architects who utilized different styles, the two phases of development are combined in a building with a rambling, unbalanced plan and an ad hoc, unplanned appearance. The building is a common property type and therefore does not reflect special elements of engineering history. The entire parcel is developed with buildings and parking lots with very small areas near the parcel boundaries devoted to landscaping, therefore there is no apparent potential for research into special elements of natural history. Research has not revealed any association with local economic or political history. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 1.

2. It is identified with persons or events significant in local, state, or national history;

As discussed above under Criterion 1 and 2, research has revealed no important associations with events significant to local, state, or national history. Research into the biographies of the pastors and church leaders has not revealed any important association with persons or events significant and local, state, or national history. The people associated with the church may have been locally prominent during their lifetimes, but did not make a lasting impact on the denomination, on local history, on their professions, or on other

historical contexts. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 2.

3. It embodies distinctive characteristics of a style, type, period, or method of construction, or is a valuable example of the use of indigenous materials or craftsmanship;

As discussed above under Criterion 3, the Pomona Fellowship Church of the Brethren does not embody distinctive characteristics of a style, type, period, or method of construction. The original 1949 church building was a modest late example of a well-proportioned traditional religious building. It utilized decorative aspects of Tudor-style architecture, a period revival style popular in the US between 1890 and about 1940. The clumsy siting of the Modernist addition disrupted the harmony and balance of the original and did not reference its decorative details. Nor is the 1959 addition in its own right a distinctive example of Modernist architecture (as discussed above). Both the original and the addition are wood-frame construction with stucco cladding, a common method of construction in the late 1940s and 1950s as well as in 2020 and in the intervening decades. The building is not a valuable example of the use of indigenous materials; during the postwar period building materials were typically mass-produced and purchased, and the physical details of this building do not indicate the use of any indigenous materials. The original church was constructed by volunteer labor, and the addition by a general contractor; these were both common types of labor used in church construction of the era. Neither the original nor the addition exhibits any distinctive or valuable examples of craftsmanship. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 3.

4. It contributes to the significance of an historic area, being a geographically definable area possessing a concentration of historic or scenic properties or thematically related grouping of properties which contribute to each other and are unified aesthetically by plan or physical development;

The Pomona Fellowship Church of the Brethren is not part of or adjacent to an existing historic district. A neighborhood architectural survey to definitively assess eligibility of the neighborhood as a historic district is outside the scope of the current project, therefore it is unknown whether a potential historic district exists. The adjacent parsonage, which predates the 1949 original church building, exhibits Tudor-style architecture that is similar to the church, but two buildings cannot constitute a concentration of historic properties or a thematically related grouping of properties. Furthermore, neither building is architecturally or historically significant, so if they were part of a larger grouping of related properties, they would still not be eligible as contributors to a potential historic district. Historic aerial images and contemporary street photographs reveal that the immediate neighborhood around the church was developed between the 1920s and the 1990s. The church is the only institutional property in the immediate vicinity, which is otherwise residential. The modest-sized single-family houses that characterize the neighborhood exhibit a variety of plans, materials, and architectural styles. Limited research has not revealed any indication that they are thematically related or that they contribute to each other or are unified aesthetically by plan or physical development. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 4.

5. It is the work of a notable building, designer, landscape designer, or architect;

As discussed above under Criterion 3, the Pomona Fellowship Church of the Brethren was originally designed by Louis S. Gamble and Associates in 1949. The firm specialized in church design, and several of their church commissions were completed in Southern California between the late 1940s and the 1960s. Research did not reveal any awards or other professional accolades from the period Gamble and Associates was active, and the firm's work has not been recognized as eligible for historic listing in Pomona or other nearby cities. Furthermore, the original design was disrupted by the 1959 addition, and the building in its current form cannot be wholly attributed to Gamble and Associates. Frick & Frick Architects, the firm responsible for the addition, has not been recognized as a notable local architectural firm. The property features very little landscaping, and research revealed no contributions to the site by a landscape designer. The Edwards Construction Company, which constructed the addition, built many projects in the region but does not appear to have been notable for the quality of its work. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 5.

6. It has a unique location or singular physical characteristics or is a view or vista representing an established and familiar visual feature of a neighborhood, community, or the City of Pomona;

Every building is sited in a “unique” location in the sense that no two parcels can be exactly alike. However, W. Orange Grove Ave. is an ordinary street in Pomona with no notable features that distinguish it from other residential streets, and the Pomona Fellowship Church of the Brethren parcel has no special qualities that distinguish it from neighboring parcels. Therefore, the property lacks the type of unique location that would render it eligible for historic listing. Although the church building is certainly visible from neighboring parcels in its residential neighborhood, it cannot be characterized as offering a view or vista. Nor does it represent such an established and familiar visual feature of the neighborhood, community, or city that it would qualify for historic listing. (Nearly every property is visible from its near neighbors and from the public right-of-way on the street where it is sited.) The church is not located on an important public thoroughfare for other highly visible location such as downtown Pomona. Although it has been a feature of its neighborhood in an approximation of its current form for roughly 60 years, it lacks the singular physical characteristics that would render it eligible for historic listing. A property would need to be more than ordinary to meet this criterion: attractive and harmonious architecture, picturesque vernacular building features, or a formerly common but now rare property type are examples of characteristics that might render a property eligible under this criterion, but are lacking for the Pomona Fellowship Church of the Brethren. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 6.

7. It embodies elements of architectural design, detail, materials, or craftsmanship that represent a significant structural or architectural achievement or innovation;

As discussed above under Criterion 3 as well as under local Criteria 1, 3, and 5; the Pomona Fellowship Church of the Brethren does not embody elements of architectural design, detail, materials, or craftsmanship that represent a significant structural or

architectural achievement or innovation. It is an example of a common style and has been altered over time, and therefore is not a strong example of high-quality architectural design. Its wood frame construction, stucco cladding, and decorative detail as well as its craftsmanship are ordinary for their era and do not represent a significant achievement in the realm of architecture or engineering. Nor is there anything innovative about the building's design or structural qualities. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 7.

8. It is similar to other distinctive properties, sites, areas, or objects based on an historic, cultural, or architectural motif;

The Pomona Fellowship Church of the Brethren does not exhibit similarity to any other known distinctive historic properties. Since it was developed by different architects over a period of time, it is not a strong example of any style and does not resemble other historic-era buildings in Pomona. There are no known local examples of historic churches from the postwar era. Research has revealed no important historical, cultural, or architectural motif that would render the property eligible for historical listing. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 8.

9. It reflects significant geographical patterns, including those associated with different eras of settlement and growth, particular transportation modes, or distinctive examples of park or community planning;

The Pomona Fellowship Church of the Brethren is not associated with significant geographical patterns associated with Pomona's eras of settlement and growth. The neighborhood was utilized for citrus groves through the middle of the twentieth century, but nothing remains of this geographical pattern associated with Pomona's agricultural past. The church building is an outlier in a mostly residential neighborhood that was developed gradually between the 1920s and 1990s, and is therefore not associated with the primary geographical pattern of the neighborhood. The neighborhood is not strongly associated with any particular era of residential development since it was developed gradually over many decades. The property is generally associated with automobile transportation, since it is sited on a public street, but nearly every parcel has street access; this common element of development is not sufficient to render the property eligible for historic listing for association with automobile transportation. The property is a church and therefore not a distinctive example of park planning. Research has not revealed any association with a distinctive example of community planning. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 9.

10. It is one of the few remaining examples in the City of Pomona, region, state, or nation possessing distinguishing characteristics of an architectural or historical type or specimen.

As discussed above under Criterion 3 as well as under local Criteria 1, 3, 5, and 7; the Pomona Fellowship Church of the Brethren is a common type of building (wood frame with stucco cladding) locally, regionally, throughout California, and nationwide. Originally an example of a common architectural style, it has also been altered over time and does not

possess distinguishing characteristics of an architectural or historical type or specimen. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 10.

The property is not recommended to qualify for listing on the California Register, or local listing and does not qualify a historic resource under CEQA.

California Register Evaluation for 861 West Orange Grove Avenue, Building #1. Criterion 1: The house is not associated with events that have made a significant contribution to the broad patterns of our history. It was constructed as a residence during the 1920s, an era when the neighborhood was still primarily devoted to citrus production. Research has revealed no significant association between the house and any important historic context. Therefore, the property is recommended not eligible to the California Register under Criterion 1.

Criterion 2: The early owners and residents of the house were not important to Pomona history. Likewise, the pastors who lived there after the church purchased the property were not important to local history or to the history of the denomination. Therefore, it is not recommended eligible to the California Register under Criterion 2.

Criterion 3: The house is a modest example of a Tudor-style residential building, a popular architectural style for small houses during the 1920s. Although it exhibits several features of the style including steeply-pitched cross-gabled roof and multiple-light windows meant to evoke English cottages, it lacks architectural distinction. Landmark examples of Tudor-style architecture typically feature decorative half-timbering and other woodwork, leaded glass windows, and complex decorative brickwork patterns. None of these features are present on the house, which appears to have been constructed without assistance from an architect. For these reasons, the property is recommended not eligible to the California Register under Criterion 3.

Criterion 4: In rare instances, buildings themselves can serve as sources of important information about historic construction materials or technologies and be significant under Criterion 4. The house is a common and well-understood building type and therefore does not appear to be a principal source of important information in this regard.

City of Pomona Historic Landmark Designation Criteria for 861 West Orange Grove Avenue, Building #1. An improvement, natural feature, or site may be designated an Historic Landmark by the Historic Preservation Commission and City Council and any area within the City of Pomona may be designated an Historic District pursuant to Subsection E of this Section, if the building or majority of buildings (in a district) are fifty (50) or more years old or of exceptional quality if less than fifty (50) years old, and it meets one or more of the following criteria:

1. It exemplifies or reflects special elements of the City of Pomona's cultural, social, economic, political, aesthetic, engineering, architectural, or natural history;

The house at 861 W. Orange Grove Ave does not exemplify or reflect special elements of local history. Although the original construction of the residence is generally associated with citrus cultivation in the 1920s (as discussed under Criterion 1 above) research has not revealed exemplification of any "special elements" of Pomona's social or cultural history. It was one of many houses constructed during the era, and review of the historical record has not revealed that it had a significant role in local history. Likewise, its architectural and aesthetic features are typical of a very common style rather than special (as discussed under Criterion C/3 above). The building is a common property type and therefore does not reflect special elements of engineering history. The entire parcel is developed with buildings and landscaping, therefore there is no apparent potential for research into special elements of natural history. Research has not revealed any association with local economic or political history. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 1.

2. It is identified with persons or events significant in local, state, or national history;

As discussed above under Criterion 1 and 2, research has revealed no important associations with events significant to local, state, or national history. Research into the biographies of the pastors and farmers who lived in the house has not revealed any important association with persons or events significant and local, state, or national history. The people associated with the house may have been locally prominent during their lifetimes, but did not make a lasting impact on the denomination, on local history, on agriculture, or on other historical contexts. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 2.

3. It embodies distinctive characteristics of a style, type, period, or method of construction, or is a valuable example of the use of indigenous materials or craftsmanship;

As discussed above under Criterion 3, 861 W. Orange Grove Ave does not embody distinctive characteristics of a style, type, period, or method of construction. The original 1922 house was a modest example of a Tudor-style domestic architecture. It utilized the basic aspects of the Tudor style, a period revival style popular in the US between 1890 and about 1940. Although this style was utilized for large, architect-designed houses, it was also adapted for modest residences such as this one. It features wood-frame construction with stucco cladding, a common method of construction in the 1920s as well as in 2020 and in the intervening decades. The building is not a valuable example of the use of indigenous materials; the physical details of this building do not indicate the use of any indigenous materials. It does not exhibit any distinctive or valuable examples of craftsmanship. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 3.

4. It contributes to the significance of an historic area, being a geographically definable area possessing a concentration of historic or scenic properties or thematically related grouping of properties which contribute to each other and are unified aesthetically by plan or physical development;

861 W. Orange Grove Ave is not part of or adjacent to an existing historic district. A neighborhood architectural survey to definitively assess eligibility of the neighborhood as a historic district is outside the scope of the current project, therefore it is unknown whether a potential historic district exists. The adjacent church, which was constructed between 1949 and 1959, exhibits some features of Tudor-style architecture similar to the residence, but two buildings cannot constitute a concentration of historic properties or a thematically related grouping of properties. Furthermore, neither building is architecturally or historically significant, so if they were part of a larger grouping of related properties, they would still not be eligible as contributors to a potential historic district. Historic aerial images and contemporary street photographs reveal that the immediate neighborhood was developed between the 1920s and the 1990s. The modest-sized single-family houses that characterize the neighborhood exhibit a variety of plans, materials, and architectural styles. Limited research has not revealed any indication that they are thematically related or that they contribute to each other or are unified aesthetically by plan or physical development. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 4.

5. It is the work of a notable building, designer, landscape designer, or architect;

As discussed above, 861 W. Orange Grove Ave was probably not designed by an architect. Nor has research revealed the identity of its original builder. It exhibits the simple characteristics of the house designed according to standard plans. Likewise, its landscaping is typical and research has revealed no association with the landscape designer. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 5.

6. It has a unique location or singular physical characteristics or is a view or vista representing an established and familiar visual feature of a neighborhood, community, or the City of Pomona;

Every building is sited in a “unique” location in the sense that no two parcels can be exactly alike. However, W. Orange Grove Ave. is an ordinary street in Pomona with no notable features that distinguish it from other residential streets, and the 861 W. Orange Grove Ave parcel has no special qualities that distinguish it from neighboring parcels. Therefore, the property lacks the type of unique location that would render it eligible for historic listing. Although the church building is certainly visible from neighboring parcels in its residential neighborhood, it cannot be characterized as offering a view or vista. Nor does it represent such an established and familiar visual feature of the neighborhood, community, or city that it would qualify for historic listing. (Nearly every property is visible from its near neighbors and from the public right-of-way on the street where it is sited.) The house is not located on an important public thoroughfare for other highly visible location such as downtown Pomona. Although it has been a feature of its neighborhood in an approximation of its current form for century, it lacks the singular physical characteristics that would render it eligible for historic listing. A property would need to be more than ordinary to meet this criterion: attractive and harmonious architecture, picturesque vernacular building features, or a formerly common but now rare property type are examples of characteristics that might render a property eligible under this criterion, but are lacking for this house. For these reasons, the property is

not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 6.

7. It embodies elements of architectural design, detail, materials, or craftsmanship that represent a significant structural or architectural achievement or innovation;

As discussed above under Criterion 3 as well as under local Criteria 1, 3, and 5; 861 W. Orange Grove Ave does not embody elements of architectural design, detail, materials, or craftsmanship that represent a significant structural or architectural achievement or innovation. It is a modest example of a common style. Its wood frame construction, stucco cladding, and decorative detail as well as its craftsmanship are ordinary for their era and do not represent a significant achievement in the realm of architecture or engineering. Nor is there anything innovative about the building's design or structural qualities. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 7.

8. It is similar to other distinctive properties, sites, areas, or objects based on an historic, cultural, or architectural motif;

861 W. Orange Grove Ave does not exhibit similarity to any other known distinctive historic properties. Although it is a good simple example of the house of its era, it lacks the distinction required for historic listing, and is similar to many surviving unlisted properties. Research has revealed no important historical, cultural, or architectural motif that would render the property eligible for historical listing. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 8.

9. It reflects significant geographical patterns, including those associated with different eras of settlement and growth, particular transportation modes, or distinctive examples of park or community planning;

861 W. Orange Grove Ave is not associated with significant geographical patterns associated with Pomona's eras of settlement and growth. The neighborhood was utilized for citrus groves when it was constructed, but nothing remains of this geographical pattern associated with Pomona's agricultural past. The neighborhood is not strongly associated with any particular era of residential development since it was developed gradually over many decades. The property is generally associated with automobile transportation, since it is sited on a public street, but nearly every parcel has street access; this common element of development is not sufficient to render the property eligible for historic listing for association with automobile transportation. The property is a house and therefore not a distinctive example of park planning. It appears to have been developed as a single parcel and therefore lacks any association with a distinctive example of community planning. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 9.

10. It is one of the few remaining examples in the City of Pomona, region, state, or nation possessing distinguishing characteristics of an architectural or historical type or specimen.

As discussed above under Criterion C/3 as well as under local Criteria 1, 3, 5, and 7; 861 W. Orange Grove Ave is a common type of building (wood frame with stucco cladding) locally, regionally, throughout California, and nationwide. It is also an example of a common architectural style and does not possess distinguishing characteristics of an architectural or historical type or specimen. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 10.

The property is not recommended to qualify for listing on the California Register, or local listing and does not qualify a historic resource under CEQA.

California Register Evaluation for 861 West Orange Grove Avenue, Building #2. Criterion 1: The house is not associated with events that have made a significant contribution to the broad patterns of our history. It was constructed as a garage in 1932, and was later converted to a modest dwelling. Research has revealed no significant association between the house and any important historic context. Therefore, the property is recommended not eligible to the National Register under Criterion 1.

Criterion 2: The early owners and residents of the house were not important to Pomona history. Likewise, the people associated with the Church of the Brethren who lived there after the church purchased the property were not important to local history or to the history of the denomination. Therefore, it is not recommended eligible to the California Register under Criterion 2.

Criterion 3: The house is a simple example of a garage constructed in association with a modest residence, which was later converted to residential use. Research has not revealed historic photographs or other evidence of its exact original form and details, however its original use as a garage associated with a modest residence indicates that in its original form it would have been a primarily utilitarian building that lacked architectural distinction. It has been altered since its original construction and does not convey its original identity as a garage. Nor is the building architecturally significant house, it is a modest, pragmatic dwelling without distinctive design. For these reasons, the property is recommended not eligible to the California Register under Criterion 3.

Criterion 4: In rare instances, buildings themselves can serve as sources of important information about historic construction materials or technologies and be significant under Criterion 4. The house is a common and well-understood building type and therefore does not appear to be a principal source of important information in this regard.

City of Pomona Historic Landmark Designation Criteria for 861 West Orange Grove Avenue, Building #2. An improvement, natural feature, or site may be designated an Historic Landmark by the Historic Preservation Commission and City Council and any area within the City of Pomona may be designated an Historic District pursuant to Subsection E of this Section, if the building or majority of buildings (in a district) are fifty (50) or more years old or of exceptional quality if less than fifty (50) years old, and it meets one or more of the following criteria:

1. It exemplifies or reflects special elements of the City of Pomona's cultural, social, economic, political, aesthetic, engineering, architectural, or natural history;

The ancillary dwelling at 861 W. Orange Grove Ave does not exemplify or reflect special elements of local history. Constructed as a garage in 1932 and later converted to residential use (as discussed under Criterion 1 above) research has not revealed exemplification of any "special elements" of Pomona's social or cultural history. It was an ordinary garage that was converted into a modest ancillary dwelling and as such lacks the potential to have played a significant role in local history. Likewise, its architectural and aesthetic features do not reference any particular style and cannot be termed special (as discussed under Criterion 3 above). The building is a common property type and therefore does not reflect special elements of engineering history. The entire parcel is developed with buildings and landscaping, therefore there is no apparent potential for research into special elements of natural history. Research has not revealed any association with local economic or political history. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 1.

2. It is identified with persons or events significant in local, state, or national history;

As discussed above under Criterion 1 and 2, research has revealed no important associations with events significant to local, state, or national history. Research into the biographies of the farmers who owned the garage when it was constructed and the church leaders who later owned it has not revealed any important association with persons or events significant and local, state, or national history. Research is not revealed the identity of persons who lived in the house after 1952, but significant figures are unlikely to have lived in a one-bedroom converted garage. Research has revealed no association with a person who made a lasting impact on the denomination, on local history, on agriculture, or on other historical contexts. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 2.

3. It embodies distinctive characteristics of a style, type, period, or method of construction, or is a valuable example of the use of indigenous materials or craftsmanship;

As discussed above under Criterion 3, the ancillary dwelling at 861 W. Orange Grove Ave does not embody distinctive characteristics of a style, type, period, or method of construction. The original 1932 garage was a modest in size and research has revealed no evidence that it was architecturally distinctive. It features wood-frame construction with stucco cladding, a common method of construction in the 1930s as well as in 2020 and in the intervening decades. The building is not a valuable example of the use of indigenous materials; the physical details of this building do not indicate the use of any indigenous materials. It does not exhibit any distinctive or valuable examples of craftsmanship. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 3.

4. It contributes to the significance of an historic area, being a geographically definable area possessing a concentration of historic or scenic properties or thematically related grouping

of properties which contribute to each other and are unified aesthetically by plan or physical development;

The ancillary dwelling at 861 W. Orange Grove Ave is not part of or adjacent to an existing historic district. A neighborhood architectural survey to definitively assess eligibility of the neighborhood as a historic district is outside the scope of the current project, therefore it is unknown whether a potential historic district exists. Historic aerial images and contemporary street photographs reveal that the immediate neighborhood was developed between the 1920s and the 1990s. The modest-sized single-family houses that characterize the neighborhood exhibit a variety of plans, materials, and architectural styles. Limited research has not revealed any indication that they are thematically related or that they contribute to each other or are unified aesthetically by plan or physical development. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 4.

5. It is the work of a notable building, designer, landscape designer, or architect;

As discussed above, the ancillary dwelling at 861 W. Orange Grove Ave was probably not designed by an architect. Nor has research revealed the identity of its original builder. It exhibits the simple characteristics of a garage designed according to standard plans and later converted to use as a simple residence. Likewise, its landscaping is typical and research has revealed no association with a landscape designer. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 5.

6. It has a unique location or singular physical characteristics or is a view or vista representing an established and familiar visual feature of a neighborhood, community, or the City of Pomona;

Every building is sited in a “unique” location in the sense that no two parcels can be exactly alike. However, W. Orange Grove Ave. is an ordinary street in Pomona with no notable features that distinguish it from other residential streets, and the 861 W. Orange Grove Ave parcel has no special qualities that distinguish it from neighboring parcels. Therefore, the property lacks the type of unique location that would render it eligible for historic listing. Although the church building is certainly visible from neighboring parcels in its residential neighborhood, it cannot be characterized as offering a view or vista. Nor does it represent such an established and familiar visual feature of the neighborhood, community, or city that it would qualify for historic listing. (Nearly every property is visible from its near neighbors and from the public right-of-way on the street where it is sited.) The house is not located on an important public thoroughfare for other highly visible location such as downtown Pomona. Although it has been a feature of its neighborhood in an approximation of its current form since the 1950s, it lacks the singular physical characteristics that would render it eligible for historic listing. A property would need to be more than ordinary to meet this criterion: attractive and harmonious architecture, picturesque vernacular building features, or a formerly common but now rare property type are examples of characteristics that might render a property eligible under this criterion, but are lacking for this dwelling. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 6.

7. It embodies elements of architectural design, detail, materials, or craftsmanship that represent a significant structural or architectural achievement or innovation;

As discussed above under Criterion C/3 as well as under local Criteria 1, 3, and 5; the ancillary dwelling at 861 W. Orange Grove Ave does not embody elements of architectural design, detail, materials, or craftsmanship that represent a significant structural or architectural achievement or innovation. It is a modest example of a common style. Its wood frame construction, stucco cladding, and lack of decorative detail are typical of utilitarian buildings of the era. It does not embody any notable elements of craftsmanship, and does not represent a significant achievement in the realm of architecture or engineering. Nor is there anything innovative about the building's design or structural qualities. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 7.

8. It is similar to other distinctive properties, sites, areas, or objects based on an historic, cultural, or architectural motif;

The ancillary dwelling at 861 W. Orange Grove Ave does not exhibit similarity to any other known distinctive historic properties. It was originally a garage, was converted to use as a modest residence in the 1950s, and has subsequently been further altered. Research has revealed no important historical, cultural, or architectural motif that would render the property eligible for historical listing. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 8.

9. It reflects significant geographical patterns, including those associated with different eras of settlement and growth, particular transportation modes, or distinctive examples of park or community planning;

The ancillary dwelling at 861 W. Orange Grove Ave is not associated with significant geographical patterns associated with Pomona's eras of settlement and growth. The neighborhood was utilized for citrus groves when it was constructed, but nothing remains of this geographical pattern associated with Pomona's agricultural past. The neighborhood is not strongly associated with any particular era of residential development since it was developed gradually over many decades. The property is generally associated with automobile transportation, since it is sited on a public street, but nearly every parcel has street access; this common element of development is not sufficient to render the property eligible for historic listing for association with automobile transportation. The property is a residence and therefore not a distinctive example of park planning. It appears to have been developed as a single parcel and therefore lacks any association with a distinctive example of community planning. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 9.

10. It is one of the few remaining examples in the City of Pomona, region, state, or nation possessing distinguishing characteristics of an architectural or historical type or specimen.

As discussed above under Criterion C/3 as well as under local Criteria 1, 3, 5, and 7; ancillary dwelling at 861 W. Orange Grove Ave is a common type of building (wood frame

with stucco cladding) locally, regionally, throughout California, and nationwide. It not a good example of any architectural style and does not possess distinguishing characteristics of an architectural or historical type or specimen. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 10.

The property is not recommended to qualify for listing on the California Register, or local listing and does not qualify a historic resource under CEQA.

RECOMMENDATIONS

BCR Consulting personnel identified three historic-era buildings within the subject property boundaries. The Pomona Church of the Brethren at 875 West Orange Grove Avenue, and the two houses at 861 West Orange Grove Avenue are recommended not eligible for listing in the California Register of Historical Resources (the California Register). As such, the subject property and its constituent buildings are not recommended "historical resources" under CEQA. Furthermore, the subject property and its constituent buildings have not been designated a Historic Landmark and are not within a Historic District designated by the City Historic Preservation Commission and City Council. Pending review by the City Historic Preservation Commission and City Council, the results of this study indicate that the subject property does not appear to meet City eligibility criteria for Landmark or District designation.

The field survey and research have indicated that there are no significant archaeological resources located within the project site boundaries. No archaeological resources of any kind have been identified within a mile of the subject property. Research revealed that the property was initially developed as an orange grove and residence. The orange grove was removed when the church buildings and features were constructed. Mature orange tree roots grow to a depth of seven to 12 feet, and removal of those trees minimally disturbs the top five feet of sediment (Jauregui 2020). Additional mechanical excavation and grading for the subsequent construction further displaced soil within the project site. These factors combine to confer low sensitivity for significant buried archaeological remains. Since the research and fieldwork have failed to identify any cultural resources or sensitivity within the project site boundaries, no significant impacts related to archaeological or historical resources is anticipated and no further investigations or monitoring are recommended for the proposed project unless:

- the proposed project is changed to include areas not subject to this study;
- cultural materials are encountered during project activities.

Although the current study has not indicated sensitivity for cultural resources within the project boundaries, ground disturbing activities always have the potential to reveal buried deposits. In the event that field personnel encounter buried cultural materials, work in the immediate vicinity of the find should cease and a qualified archaeologist should be retained to assess the significance of the find. The qualified archaeologist shall have the authority to stop or divert construction excavation as necessary. If the qualified archaeologist finds that any cultural resources present meet eligibility requirements for listing on the California Register or the National Register, plans for the treatment, evaluation, and mitigation of

impacts to the find will need to be developed. Prehistoric or historic cultural materials that may be encountered during ground-disturbing activities include:

- historic artifacts such as glass bottles and fragments, cans, nails, ceramic and pottery fragments, and other metal objects;
- historic structural or building foundations, walkways, cisterns, pipes, privies, and other structural elements;
- prehistoric flaked-stone artifacts and debitage (waste material), consisting of obsidian, basalt, and or cryptocrystalline silicates;
- groundstone artifacts, including mortars, pestles, and grinding slabs;
- dark, greasy soil that may be associated with charcoal, ash, bone, shell, flaked stone, groundstone, and fire affected rocks.

If human remains are encountered, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to PRC Section 5097.98. The County Coroner must be notified of the find immediately. If the 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). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD shall complete the inspection within 48 hours of notification by the NAHC.

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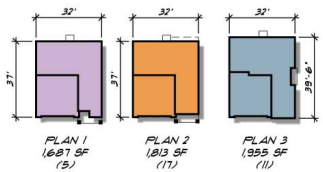
Williams, Patricia, Leah Messinger, Sarah Johnson
2008 *Habitats Alive! An Ecological Guide to California's Diverse Habitats.* California Institute for Biodiversity, Claremont, California.

APPENDIX A

PROJECT EXHIBIT



PLAN 1
1,687 SF
(5)

PLAN 2
1,813 SF
(17)

PLAN 3
1,955 SF
(11)

AVERAGE LOT SIZE = 3,597 SF

PROJECT INFORMATION

OWNER

GERALD A. DAVIS
POMONA FELLOWSHIP CHURCH OF THE BRETHREN
875 W. ORANGE GROVE AVENUE
POMONA, CA 91768
909-629-2548
gdavis1930@gmail.com

APPLICANT

PATRICK J. DIAZ
CRESTWOOD COMMUNITIES
510 W. CITRUS EDGE STREET
GLENDORA, CA 91740
626-914-1943 ex. 250
pdiaz@crestwoodcommunities.com

SCALE 1" = 30'

REGISTERED LANDSCAPE ARCHITECT
PATRICK J. DIAZ
No. LA 3880
Exp. 3/31/22
STATE OF CALIFORNIA

REVISION NO. 4

REVISION	DATE	COMMENTS
1	04.21.20	per Public Works comments 04.06.20
	-	-

OWNER:
Pomona Fellowship Church of the Brethren
875 W. Orange Grove Ave
Pomona, CA 91768
909-629-2548

ENGINEER OF RECORD:
- - -

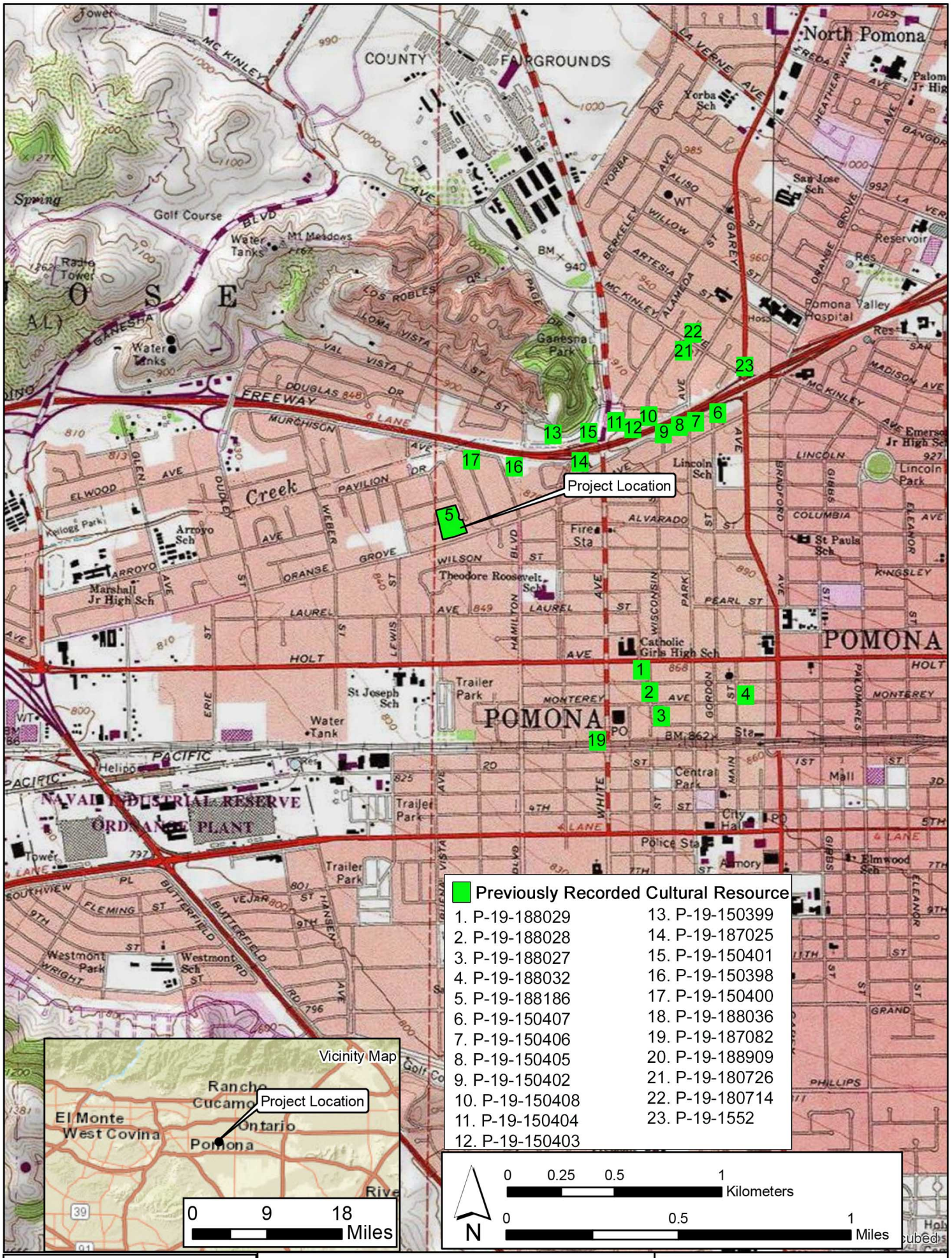
DEVELOPER OF RECORD:
CRESTWOOD COMMUNITIES
510 W. CITRUS EDGE STREET
GLENDORA, CA 91740
626-914-1943

THESE PLAN DRAWINGS ARE PROPRIETARY DOCUMENTS OF Crestwood Communities THEY ARE NOT TO BE DISTRIBUTED, PUBLISHED OR REPRODUCED WITHOUT WRITTEN CONSENT. ANY UNAUTHORIZED DUPLICATION OF THESE PLANS IN WHOLE OR IN PART IS STRICTLY PROHIBITED.

PROJECT TITLE: 875 W. Orange Grove Avenue
SCALE: -
DATE: 02/24/2020
DRAWING TITLE: PRELIM SITE PLAN
DESIGNED BY: -
DRAWN BY: -
SHEET: 1

APPENDIX B

RECORDS SEARCH MAP AND DETAILS



BCR CONSULTING LLC
Claremont Napa Tehachapi
www.bcrconsulting.net
909-525-7078

Project Location Site
Pomona Church of the Brethren Project

Figure 1

Reference: ESRI; USGS Quad: San Dimas, California (1981)

Lewis Management Corp.

Report Detail: LA-00389

Identifiers

Report No.: LA-00389
Other IDs:
Cross-refs:

Citation information

Author(s): Bissell, Ronald M.
Year: 1988
Title: Cultural Resources Reconnaissance of Five Areas in the Frank G. Bonellli Regional County Park Los Angeles County, California
Affliliation: RMW Paleo Associates, Inc.
No. pages: 14
No. maps:
Attributes: Archaeological, Field study
Inventory size: QC
Disclosure:
Collections:

General notes

Associated resources

No. resources: 0
Has informals:

Location information

County(ies): Los Angeles
USGS quad(s): SAN DIMAS
Address:
PLSS:

Database record metadata

	Date	*User*	
Entered:	5/5/2008	jay	
Last modified:	3/12/2015	agarcia	
IC actions:	*Date*	*User*	*Action taken*
	5/6/2008	jay	Appended records from old Surveys database.
	3/12/2015	agarcia	GIS QC

Record status:

Report Detail: LA-00761

Identifiers

Report No.: LA-00761
Other IDs:
Cross-refs:

Citation information

Author(s): Douglas, Ronald D.
Year: 1980
Title: An Archaeological Records Search and Field Survey Mountain Meadows Property City of Pomona Los Angeles County, California
Affliliation: Archaeological Planning Collaborative
No. pages: 6
No. maps:
Attributes: Archaeological, Field study
Inventory size: QC
Disclosure:
Collections:

General notes

Associated resources

No. resources: 0
Has informals:

Location information

County(ies): Los Angeles
USGS quad(s): SAN DIMAS
Address:
PLSS:

Database record metadata

	Date	*User*	
Entered:	5/5/2008	jay	
Last modified:	3/13/2015	agarcia	
IC actions:	*Date*	*User*	*Action taken*
	5/6/2008	jay	Appended records from old Surveys database.
	3/13/2015	agarcia	GIS QC

Record status:

Report Detail: LA-02665

Identifiers

Report No.: LA-02665
Other IDs:
Cross-refs:

Citation information

Author(s): Cottrell, Marie G., James N. Hill, Stephen Van Wormer, and John Cooper
Year: 1985
Title: Cultural Resource Overview and Survey for the Los Angeles County Drainage Area Review Study
Affliliation: ARMC
No. pages: 123
No. maps:
Attributes: Archaeological, Field study
Inventory size: QC
Disclosure: Not for publication
Collections: Unknown

General notes

Mapped to resources

Associated resources

Primary No.	*Trinomial*	*Name*
P-19-000026	CA-LAN-000026	Walker's Sheldon Reservoir Site
P-19-000075	CA-LAN-000075	Cienega Mud Springs
P-19-000163	CA-LAN-000163	Part of Steward's 81Pc.
P-19-000164	CA-LAN-000164	Rincon Rock, Azusa Canyon Pic
P-19-000166	CA-LAN-000166	W-1; Wilson 1
P-19-000167	CA-LAN-000167	Big Tujunga Wash
P-19-000173	CA-LAN-000173	
P-19-000182	CA-LAN-000182	Village of Sejat
P-19-000208	CA-LAN-000208	Ganesha Park Site
P-19-000221	CA-LAN-000221	San Gabriel
P-19-000230	CA-LAN-000230	Mesarica
P-19-000240	CA-LAN-000240	
P-19-000241	CA-LAN-000241	
P-19-000300	CA-LAN-000300	
P-19-000339	CA-LAN-000339	
P-19-000347	CA-LAN-000347	
P-19-000348	CA-LAN-000348	
P-19-000397	CA-LAN-000397	Marshall Canyon County Park Si
P-19-000522	CA-LAN-000522	X-2
P-19-000524	CA-LAN-000524	Site A
P-19-000657	CA-LAN-000657	
P-19-000693	CA-LAN-000693	Knoll Park
P-19-000694	CA-LAN-000694	
P-19-000695	CA-LAN-000695	
P-19-000697	CA-LAN-000697	
P-19-000858	CA-LAN-000858	WHITTIER NARROWS #1
P-19-001009	CA-LAN-001009/H	Flores Site
P-19-001014	CA-LAN-001014	
P-19-001044	CA-LAN-001044/H	Site 1
P-19-001045	CA-LAN-001045	Site 2
P-19-001046	CA-LAN-001046/H	Site 3
P-19-001109	CA-LAN-001109	40293#1

No. resources: 32
Has informals:

Report Detail: LA-02665

Location information

County(ies): Los Angeles
USGS quad(s): BALDWIN PARK, EL MONTE, GLENDORA, PASADENA, SAN DIMAS, SAN FERNANDO, SUNLAND
Address:
PLSS:

Database record metadata

	Date	*User*
Entered:	5/5/2008	jay
Last modified:	3/24/2015	agarcia

IC actions:	*Date*	*User*	*Action taken*
	5/6/2008	jay	Appended records from old Surveys database.
	3/24/2015	agarcia	GIS QC

Record status:

Report Detail: LA-02882

Identifiers

Report No.: LA-02882
Other IDs:
Cross-refs:

Citation information

Author(s): McKenna, Jeanette A.
Year: 1993
Title: Cultural Resources Investigations, Site Inventory, and Evaluations, the Cajon Pieline Project Corridor, Los Angeles and San Bernadino Counties, California
Affliliation: Mc Kenna et al.
No. pages: 289
No. maps:
Attributes: Archaeological, Field study
Inventory size: QC
Disclosure: Not for publication
Collections:

General notes

Associated resources

Primary No.	*Trinomial*	*Name*
P-19-000967	CA-LAN-000967	
P-19-001046	CA-LAN-001046/H	Site 3

No. resources: 2
Has informals:

Location information

County(ies): Los Angeles
USGS quad(s): BALDWIN PARK, EL MONTE
Address:
PLSS:

Database record metadata

	Date	*User*
Entered:	5/5/2008	jay
Last modified:	10/3/2016	rmoritz

IC actions:

Date	*User*	*Action taken*
5/6/2008	jay	Appended records from old Surveys database.
3/11/2015	agarcia	GIS QC

Record status: Verified

Report Detail: LA-02932

Identifiers

Report No.: LA-02932
Other IDs:
Cross-refs:

Citation information

Author(s): Wlodarski, Robert J.
Year: 1993
Title: Negative Archaeological Survey Report Provide High Occupancy Vehicle (hov) Lanes on Interstate 10 (i-10) From the Junction of State Route 57 (sr 57/interstate 610 (i-210) in the City of Pomona to the Los Angeles/san Bernardino County Line 07-la-i10/p.m. 4
Affliliation: Historical, Environmental, Archaeological, Research, Team
No. pages: 36
No. maps:
Attributes: Archaeological, Field study
Inventory size: QC
Disclosure:
Collections:

General notes

Associated resources

No. resources: 0
Has informals:

Location information

County(ies): Los Angeles
USGS quad(s): ONTARIO, SAN DIMAS
Address:
PLSS:

Database record metadata

	Date	*User*	
Entered:	5/5/2008	jay	
Last modified:	3/11/2015	agarcia	
IC actions:	*Date*	*User*	*Action taken*
	5/6/2008	jay	Appended records from old Surveys database.
	3/11/2015	agarcia	GIS QC

Record status:

Report Detail: LA-02970

Identifiers

Report No.: LA-02970
Other IDs:
Cross-refs:

Citation information

Author(s): Chamberlaine, Pat and Jean Rivers-Council
Year: 1992
Title: Cajon Pipeline Project Draft Environmental Impact Statement Environmental Impact Report
Affliliation: City of Adelanto, and Bureau of Land Management
No. pages: 61
No. maps:
Attributes: Management/planning
Inventory size: QC
Disclosure: Not for publication
Collections:

General notes

Associated resources

Primary No.	*Trinomial*	*Name*
P-19-000059	CA-LAN-000059	Malcolm Farmer's Playa del Rey
P-19-000060	CA-LAN-000060	Malcolm Farmer's Playa del Rey
P-19-000067	CA-LAN-000067	Malcolm Farmer's Baldwin Hills
P-19-000077	CA-LAN-000077	Woodward's Piru Canyon Site
P-19-000194	CA-LAN-000194	Hammack St Site
P-19-000213	CA-LAN-000213	LA-31
P-19-000216	CA-LAN-000216	
P-19-000248	CA-LAN-000248	
P-19-000441	CA-LAN-000441	Wind Cave
P-19-000444	CA-LAN-000444	Pyramid #10
P-19-000823	CA-LAN-000823	
P-19-000903	CA-LAN-000903	12A
P-19-000925	CA-LAN-000925	P-118-A
P-19-000926	CA-LAN-000926	P127 A
P-19-000927	CA-LAN-000927	P 112B
P-19-000962	CA-LAN-000962H	Assistencia
P-19-001015	CA-LAN-001015	Pyramid #1
P-19-001046	CA-LAN-001046/H	Site 3
P-19-001134	CA-LAN-001134H	Tapia-2
P-19-001354	CA-LAN-001354	REPONEN NO. 10
P-19-001595	CA-LAN-001595	PC-1
P-56-000027	CA-VEN-000027	Chwayik
P-56-000062	CA-VEN-000062	Olson's Site 10
P-56-000141	CA-VEN-000141	
P-56-000240	CA-VEN-000240	Chwayik (Chumash Village)
P-56-000241	CA-VEN-000241	
P-56-000644	CA-VEN-000644	PUNTA GORDA 1
P-56-000842	CA-VEN-000842H	Site of Battery 2, Ventura Group
P-56-000916	CA-VEN-000916	RINCHON PIPESTONE
P-56-000917	CA-VEN-000917	AY-1

No. resources: 30
Has informals:

Location information

County(ies): Los Angeles
USGS quad(s): BALDWIN PARK, EL MONTE, LA HABRA, LONG BEACH, ONTARIO, SAN DIMAS, SOUTH GATE, WHITTIER
Address:

PLSS:

Database record metadata

	Date	*User*	
Entered:	5/5/2008	jay	
Last modified:	10/3/2016	rmoritz	
IC actions:	*Date*	*User*	*Action taken*
	5/6/2008	jay	Appended records from old Surveys database.
	3/11/2015	agarcia	GIS QC
Record status:	Verified		

Report Detail: LA-03508

Identifiers

Report No.: LA-03508
Other IDs:
Cross-refs:

Citation information

Author(s): Van Wormer, Stephen R.
Year: 1985
Title: Historical Resource Overview and Survey for the Los Angeles County Drainage Area Review Study
Affliliation: Archaeological Resource Management Corp.
No. pages: 175
No. maps:
Attributes: Literature search, Other research
Inventory size: QC
Disclosure:
Collections:

General notes

Mapped using LA-2665 as a reference. Removed from unmappable folder.

Associated resources

No. resources: 0
Has informals:

Location information

County(ies): Los Angeles
USGS quad(s): AZUSA, BALDWIN PARK, BURBANK, CONDOR PEAK, EL MONTE, GLENDORA, HOLLYWOOD, LONG BEACH, LOS ANGELES, MT BALDY, MT WILSON, PASADENA, SAN DIMAS, SAN FERNANDO, SUNLAND, VAN NUYS, WHITTIER
Address:
PLSS:

Database record metadata

	Date	*User*	
Entered:	5/5/2008	jay	
Last modified:	3/27/2015	agarcia	
IC actions:	*Date*	*User*	*Action taken*
	5/6/2008	jay	Appended records from old Surveys database.
	10/24/201	agarcia	Mapped and removed from unmappable folder.
	3/27/2015	agarcia	GIS QC

Record status:

Report Detail: LA-03779

Identifiers

Report No.: LA-03779
Other IDs:
Cross-refs:

Citation information

Author(s): Smith, Francesca
Year: 1994
Title: Historic Property Survey Report Provide High Occupancy Vehicle Lanes on Interstate 10 Between Sr 57/i-210 and the Los Angeles County/san Bernardino County Line in Los Angeles County 07-la-10-41.7/48.3
Affliliation: Myra L. Frank & Associates, Inc.
No. pages: 145
No. maps:
Attributes: Other research
Inventory size: QC
Disclosure:
Collections:

General notes

Associated resources

Primary No.	*Trinomial*	*Name*
P-19-150397		House for A E Packard
P-19-150408		Dr Cordellia M Richmond Reside

No. resources: 2
Has informals:

Location information

County(ies): Los Angeles
USGS quad(s): ONTARIO, SAN DIMAS
Address:
PLSS:

Database record metadata

	Date	*User*
Entered:	5/5/2008	jay
Last modified:	3/11/2015	agarcia

IC actions:

Date	*User*	*Action taken*
5/6/2008	jay	Appended records from old Surveys database.
3/11/2015	agarcia	GIS QC

Record status:

Report Detail: LA-04835

Identifiers

Report No.: LA-04835
Other IDs:
Cross-refs:

Citation information

Author(s): Ashkar, Shahira
Year: 1999
Title: Cultural Resources Inventory Report for Williams Communications, Inc. Proposed Fiber Optic Cable System Installation Project, Los Angeles to Riverside, Los Angeles and Riverside Counties
Affliliation: Jones & Stokes Associates, Inc.
No. pages: 79
No. maps:
Attributes: Archaeological, Field study
Inventory size: QC
Disclosure:
Collections:

General notes

Associated resources

Primary No.	*Trinomial*	*Name*
P-19-186109		VOID
P-19-186112		Union Pacific RR, Southern Paci
P-19-187090		E Los Angeles RR Station

No. resources: 3
Has informals:

Location information

County(ies): Los Angeles
USGS quad(s): BALDWIN PARK, EL MONTE, HOLLYWOOD, LA HABRA, LOS ANGELES, ONTARIO, SAN DIMAS, SOUTH GATE, WHITTIER, YORBA LINDA
Address:
PLSS:

Database record metadata

	Date	*User*
Entered:	5/5/2008	jay
Last modified:	3/11/2015	agarcia

IC actions:	*Date*	*User*	*Action taken*
	5/6/2008	jay	Appended records from old Surveys database.
	3/11/2015	agarcia	GIS QC

Record status:

Report Detail: LA-04957

Identifiers

Report No.: LA-04957

Other IDs:	*Type*	*Name*
	Cellular	

Cross-refs:

Citation information

Author(s): Duke, Curt
Year: 2000
Title: Cultural Resource Assessment for the At&t Wireless Services Facility Number C787, County of Los Angeles, California
Affliliation: LSA Associates, Inc.
No. pages: 7
No. maps:
Attributes: Literature search
Inventory size: QC
Disclosure:
Collections:

General notes

Associated resources

No. resources: 0
Has informals:

Location information

County(ies): Los Angeles
USGS quad(s): SAN DIMAS
Address:
PLSS:

Database record metadata

	Date	*User*
Entered:	5/5/2008	jay
Last modified:	3/17/2015	agarcia

IC actions:	*Date*	*User*	*Action taken*
	5/6/2008	jay	Appended records from old Surveys database.
	3/17/2015	agarcia	GIS QC

Record status:

Report Detail: LA-05726

Identifiers

Report No.: LA-05726
Other IDs:
Cross-refs:

Citation information

Author(s): Sylvia, Barbara
Year: 2001
Title: Negative Archaeological Survey Report
Affliliation: Caltrans District 7
No. pages: 4
No. maps:
Attributes: Archaeological, Field study
Inventory size: QC
Disclosure:
Collections:

General notes

Associated resources

No. resources: 0
Has informals:

Location information

County(ies): Los Angeles
USGS quad(s): SAN DIMAS
Address:
PLSS:

Database record metadata

	Date	*User*
Entered:	5/5/2008	jay
Last modified:	3/11/2015	agarcia

IC actions:	*Date*	*User*	*Action taken*
	5/6/2008	jay	Appended records from old Surveys database.
	3/11/2015	agarcia	GIS QC

Record status:

Report Detail: LA-05925

Identifiers

Report No.: LA-05925
Other IDs:
Cross-refs:

Citation information

Author(s): Smith, Francesca
Year: 1994
Title: Historic Property Survey Report Provide High Occupancy Vehicle Lanes on Interstate 10 Sr57/i-210 and the Los Angeles County/san Bernardino County Lines in Los Angeles 07-la-10-41.7/48.3
Affliliation: Myra L. Frank & Associates, Inc.
No. pages: 15
No. maps:
Attributes: Other research
Inventory size: QC
Disclosure:
Collections:

General notes

Associated resources

No. resources: 0
Has informals:

Location information

County(ies): Los Angeles
USGS quad(s): ONTARIO, SAN DIMAS
Address:
PLSS:

Database record metadata

	Date	*User*	
Entered:	5/5/2008	jay	
Last modified:	3/11/2015	agarcia	
IC actions:	*Date*	*User*	*Action taken*
	5/6/2008	jay	Appended records from old Surveys database.
	3/11/2015	agarcia	GIS QC

Record status:

Report Detail: LA-08665

Identifiers

Report No.: LA-08665
Other IDs:
Cross-refs:

Citation information

Author(s): Tibbet, Casey and Shannon Carmack
Year: 2007
Title: Historic Resources Assessment: Downtown Pomona Demolition Project, City of Pomona, Los Angeles County, California
Affliliation: LSA Associates, Inc.
No. pages: 32
No. maps:
Attributes: Architectural/historical, Evaluation
Inventory size: QC
Disclosure:
Collections:

General notes

Associated resources

Primary No.	*Trinomial*	*Name*
P-19-188027		Malosos Place
P-19-188028		Flamin' Willie's Chili
P-19-188029		Ava Riety Designs/Emerald Cres
P-19-188030		London Calling
P-19-188031		Yesteryears (235)
P-19-188032		

No. resources: 6
Has informals:

Location information

County(ies): Los Angeles
USGS quad(s): SAN DIMAS
Address:
PLSS:

Database record metadata

	Date	*User*
Entered:	5/5/2008	jay
Last modified:	3/23/2015	agarcia

IC actions:	*Date*	*User*	*Action taken*
	5/6/2008	jay	Appended records from old Surveys database.
	3/23/2015	agarcia	GIS QC

Record status:

Report Detail: LA-08828

Identifiers

Report No.: LA-08828

Other IDs:	*Type*	*Name*
	Cellular	

Cross-refs:

Citation information

Author(s): Bonner, Wayne H.

Year: 2007

Title: Cultural Resources Records Search and Site Visit Results for Royal Streel Communications, Llc Candidate La2337a (i-10 at White), 875 West Orange Grove, Avenue, Pomona, Los Angeles County, California

Affliliation: Michael Brandman Associates

No. pages: 12

No. maps:

Attributes: Archaeological, Field study

Inventory size: QC

Disclosure:

Collections:

General notes

Associated resources

Primary No.	*Trinomial*	*Name*
P-19-150348		726 Maine Ave
P-19-150400		House for Farell Fikel
P-19-150401		House for C P Stensgard

No. resources: 3

Has informals:

Location information

County(ies): Los Angeles

USGS quad(s): SAN DIMAS

Address:

PLSS:

Database record metadata

	Date	*User*
Entered:	5/5/2008	jay
Last modified:	3/23/2015	agarcia

IC actions:	*Date*	*User*	*Action taken*
	5/6/2008	jay	Appended records from old Surveys database.
	3/23/2015	agarcia	GIS QC

Record status:

Report Detail: LA-10038

Identifiers

Report No.: LA-10038
Other IDs:
Cross-refs:

Citation information

Author(s): McKenna, Jeanette A.
Year: 2004
Title: Results of an Archaeological Monitoring Program for the C-crest Partners Llc Property, 1280 Loma Vista Street, Pomona, Los Angeles Co., California.
Affliliation: McKenna et al.
No. pages: 51
No. maps:
Attributes: Monitoring
Inventory size: QC
Disclosure:
Collections:

General notes

Associated resources

No. resources: 0
Has informals:

Location information

County(ies): Los Angeles
USGS quad(s): SAN DIMAS

Address:	*Address*	*City*	*Assessor's parcel no.*	*Zip code*
	1280 Loma Vista Street	Pomona		

PLSS:

Database record metadata

	Date	*User*
Entered:	5/5/2008	jay
Last modified:	3/23/2015	agarcia

IC actions:	*Date*	*User*	*Action taken*
	5/6/2008	jay	Appended records from old Surveys database.
	3/23/2015	agarcia	GIS QC

Record status:

Report Detail: LA-10853

Identifiers

Report No.: LA-10853
Other IDs:
Cross-refs:

Citation information

Author(s): Simpson, Karen
Year: 2007
Title: Historic Preservation Environmental Review Site(s); 991 N. Huntington Blvd.
Affliliation: City of Pomona
No. pages: 4
No. maps:
Attributes: Architectural/historical
Inventory size: QC
Disclosure: Not for publication
Collections: No

General notes

Mapped to 19-188909

Associated resources

Primary No.	*Trinomial*	*Name*
P-19-188909		

No. resources: 1
Has informals:

Location information

County(ies): Los Angeles
USGS quad(s): SAN DIMAS

Address:	*Address*	*City*	*Assessor's parcel no.*	*Zip code*
	991 N. Huntington Blvd.	Pomona	8357-009-008	

PLSS:

Database record metadata

	Date	*User*
Entered:	5/3/2011	agarcia
Last modified:	3/23/2015	agarcia

IC actions:	*Date*	*User*	*Action taken*
	3/23/2015	agarcia	GIS QC

Record status:

Report Detail: LA-10958

Identifiers

Report No.: LA-10958

Other IDs:	*Type*	*Name*
	Cellular	

Cross-refs:

Citation information

Author(s): Hollins, Jeremy and Christia Chang
Year: 2010
Title: Verizon Cellular Communications Tower Site- Estrella LTE 1101 W. McKinley Avenue, Pomona, CA 91768
Affliliation: URS
No. pages: 24
No. maps:
Attributes: Other research
Inventory size: QC
Disclosure: Not for publication
Collections: No

General notes

Associated resources

	Primary No.	*Trinomial*	*Name*
	P-19-187106		Los Angeles County Fair Grands

No. resources: 1
Has informals:

Location information

County(ies): Los Angeles
USGS quad(s): SAN DIMAS

Address:	*Address*	*City*	*Assessor's parcel no.*	*Zip code*
	1101 W. McKinley Avenue	Pomona	8378-020-901	

PLSS:

Database record metadata

	Date	*User*
Entered:	6/30/2011	agarcia
Last modified:	3/23/2015	agarcia

IC actions:	*Date*	*User*	*Action taken*
	3/23/2015	agarcia	GIS QC

Record status:

Report Detail: LA-11299

Identifiers

Report No.: LA-11299
Other IDs:
Cross-refs:

Citation information

Author(s): Campbell, Sandra
Year: 2010
Title: Section 106 Review for Pomona Transit Center Electric Bus Charging Station Project
Affliliation: City of Pomona and Foothill Transit
No. pages: 7
No. maps:
Attributes: Other research
Inventory size: QC
Disclosure: Not for publication
Collections: No

General notes

Associated resources

Primary No.	*Trinomial*	*Name*
P-19-189200		Pomona Transit Center Depot Bl

No. resources: 1
Has informals:

Location information

County(ies): Los Angeles
USGS quad(s): ONTARIO, SAN DIMAS

Address: *Address*	*City*	*Assessor's parcel no.*	*Zip code*
100 West Commercial Street	Pomona		

PLSS:

Database record metadata

	Date	*User*
Entered:	12/6/2011	agarcia
Last modified:	3/12/2015	agarcia

IC actions: *Date*	*User*	*Action taken*
3/12/2015	agarcia	GIS QC

Record status:

Report Detail: LA-11350

Identifiers

Report No.: LA-11350
Other IDs:
Cross-refs:

Citation information

Author(s): Lothrop, Gloria Ricci
Year: 1988
Title: Pomona - A Centennial History
Affliliation:
No. pages: 7
No. maps:
Attributes: Architectural/historical
Inventory size: QC
Disclosure: Unrestricted
Collections: Unknown

General notes

Associated resources

	Primary No.	*Trinomial*	*Name*
	P-19-000208	CA-LAN-000208	Ganesha Park Site

No. resources: 1
Has informals:

Location information

County(ies): Los Angeles
USGS quad(s): SAN DIMAS

Address:	*Address*	*City*	*Assessor's parcel no.*	*Zip code*
		Pomona		

PLSS:

Database record metadata

	Date	*User*
Entered:	1/11/2012	agarcia
Last modified:	3/24/2015	agarcia

IC actions:	*Date*	*User*	*Action taken*
	3/24/2015	agarcia	GIS QC

Record status:

Report Detail: LA-11351

Identifiers

Report No.: LA-11351
Other IDs:
Cross-refs:

Citation information

Author(s): Belmont, John and Timothy Seymour
Year: 1979
Title: Smallpox, Poverty and Death at Ganesha Park, Mt. San Antonio Historian
Affliliation: CSU Pomona
No. pages: 12
No. maps:
Attributes: Architectural/historical
Inventory size: QC
Disclosure: Unrestricted
Collections: Yes

General notes

Associated resources

	Primary No.	*Trinomial*	*Name*
	P-19-000208	CA-LAN-000208	Ganesha Park Site

No. resources: 1
Has informals:

Location information

County(ies): Los Angeles
USGS quad(s): SAN DIMAS

Address:	*Address*	*City*	*Assessor's parcel no.*	*Zip code*
		Pomona		

PLSS:

Database record metadata

	Date	*User*
Entered:	1/11/2012	agarcia
Last modified:	3/24/2015	agarcia

IC actions:	*Date*	*User*	*Action taken*
	3/24/2015	agarcia	GIS QC

Record status:

Report Detail: LA-11352

Identifiers

Report No.: LA-11352
Other IDs:
Cross-refs:

Citation information

Author(s): Bassi, Matthew
Year: 2004
Title: Request to Designate Ganesha Park as a Single Historic Landmark; Applicant, Mickey D. Gallivan of the Historical Society of Pomona Valley
Affliliation: Historic Preservation Commission
No. pages: 88
No. maps:
Attributes: Architectural/historical, Evaluation
Inventory size: QC
Disclosure: Not for publication
Collections: Yes

General notes

Associated resources

Primary No.	*Trinomial*	*Name*
P-19-000208	CA-LAN-000208	Ganesha Park Site

No. resources: 1
Has informals:

Location information

County(ies): Los Angeles
USGS quad(s): SAN DIMAS
Address:
PLSS:

Database record metadata

	Date	*User*
Entered:	1/11/2012	agarcia
Last modified:	3/24/2015	agarcia

IC actions:	*Date*	*User*	*Action taken*
	3/24/2015	agarcia	GIS QC

Record status:

Resource Detail: P-19-001552

Identifying information

Primary No.: P-19-001552

Trinomial: CA-LAN-001552H

Name: LA CASA PRIMERA DE RANCHO SAN JOSE

Other IDs:

Type	*Name*
Resource Name	LA CASA PRIMERA DE RANCHO SAN JOSE
CHL	CA HIST LANDMARK 75082524
Other	PHI-LAN-5394-HP16

Cross-refs:

Attributes

Resource type: Site

Age: Historic

Information base: Survey, Excavation

Attribute codes: AH03 (Landscaping/orchard); AH05 (Wells/cisterns); AH06 (Water conveyance system); AH11 (Walls/fences); AH15 (Standing structures); AH16 (Other); HP44 (Adobe building/structure)

Disclosure: Not for publication

Collections: No

Accession no(s):

Facility:

General notes

Recording events

Date	*Recorder(s)*	*Affiliation*	*Notes*
9/23/1988	Dr. Bernice Lyons McAllister	Chaffey College	

Associated reports

Report No.	*Year*	*Title*	*Affiliation*
LA-10017	1999	Archaeological Investigations of Seven Prehistoric Sites Located Within the Ocean Trail Palos Verdes Development, City of Rancho Palos Verdes, California	John Minch & Associates, Inc.
LA-12254	2012	Cultural Resources Records Search and Site Visit Results for T-Mobile West, LLC Candidate IE04241A (SB104 First Christian Church) 1751 North Park Avenue, Pomona, Los Angeles County, California	MBA

Location information

County: Los Angeles

USGS quad(s): SAN DIMAS

Address:

PLSS:

UTMs:

Management status

Database record metadata

	Date	*User*	
Entered:	5/1/2008	jay	
Last modified:	7/28/2014	sstjames	
IC actions:	*Date*	*User*	*Action taken*
	5/1/2008	jay	Appended records from Encodent database.

Record status:

Resource Detail: P-19-150398

Identifying information

Primary No.: P-19-150398
Trinomial:
Name: 1304 N Hamilton Blvd
Other IDs:

Type	*Name*
OHP Property Numb	092973
Resource Name	1304 N Hamilton Blvd

Cross-refs:

Attributes

Resource type: Building
Age: Historic
Information base: Other
Attribute codes: HP02 (Single family property)
Disclosure: Unrestricted
Collections: No
Accession no(s):
Facility:

General notes

Recording events

Date	*Recorder(s)*	*Affiliation*	*Notes*
10/8/1993	F. Smith	Myra L Frank & Associates	

Associated reports

Location information

County: Los Angeles
USGS quad(s): SAN DIMAS
Address:

Address	*City*	*Assessor's parcel no.*	*Zip code*
1304 N Hamilton Ave	Pomona		

PLSS:
UTMs:

Management status

Database record metadata

	Date	*User*
Entered:	5/1/2008	jay
Last modified:	11/5/2012	sstjames

IC actions:

Date	*User*	*Action taken*
5/1/2008	jay	Appended records from Encodent database.

Record status:

Resource Detail: P-19-150399

Identifying information

Primary No.: P-19-150399
Trinomial:
Name: Speculative House for C P Stensgard
Other IDs:

Type	*Name*
Resource Name	Speculative House for C P Stensgard

Cross-refs:

Attributes

Resource type: Building
Age: Historic
Information base: Other
Attribute codes: HP02 (Single family property)
Disclosure: Unrestricted
Collections: No
Accession no(s):
Facility:

General notes

Recording events

Date	*Recorder(s)*	*Affiliation*	*Notes*
10/8/1993	F. Smith	Myra L Frank & Associates	

Associated reports

Location information

County: Los Angeles
USGS quad(s): SAN DIMAS
Address:

Address	*City*	*Assessor's parcel no.*	*Zip code*
1314 N Huntington Blvd	Pomona		

PLSS:
UTMs:

Management status

Database record metadata

	Date	*User*
Entered:	5/1/2008	jay
Last modified:	6/19/2012	sstjames

IC actions:

Date	*User*	*Action taken*
5/1/2008	jay	Appended records from Encodent database.

Record status:

Resource Detail: P-19-150400

Identifying information

Primary No.: P-19-150400
Trinomial:
Name: House for Farell Fikel
Other IDs:

Type	*Name*
OHP Property Numb	092975
Resource Name	House for Farell Fikel

Cross-refs:

Attributes

Resource type: Building
Age: Historic
Information base: Other
Attribute codes: HP02 (Single family property)
Disclosure: Unrestricted
Collections: No
Accession no(s):
Facility:

General notes

Recording events

Date	*Recorder(s)*	*Affiliation*	*Notes*
10/8/1993	F. Smith	Myra L Frank & Associates	

Associated reports

Report No.	*Year*	*Title*	*Affiliation*
LA-08828	2007	Cultural Resources Records Search and Site Visit Results for Royal Streel Communications, Llc Candidate La2337a (i-10 at White), 875 West Orange Grove, Avenue, Pomona, Los Angeles County, California	Michael Brandman Associates

Location information

County: Los Angeles
USGS quad(s): SAN DIMAS
Address:

Address	*City*	*Assessor's parcel no.*	*Zip code*
1390 N Casa Vista Dr	Pomona		

PLSS:
UTMs:

Management status

Database record metadata

	Date	*User*
Entered:	5/1/2008	jay
Last modified:	5/31/2012	mgalaz

IC actions:

Date	*User*	*Action taken*
5/1/2008	jay	Appended records from Encodent database.

Record status:

Resource Detail: P-19-150401

Identifying information

Primary No.: P-19-150401
Trinomial:
Name: House for C P Stensgard
Other IDs:

Type	*Name*
OHP Property Numb	092977
Resource Name	House for C P Stensgard

Cross-refs:

Attributes

Resource type: Building
Age: Historic
Information base: Other
Attribute codes: HP02 (Single family property)
Disclosure: Unrestricted
Collections: No
Accession no(s):
Facility:

General notes

Recording events

Date	*Recorder(s)*	*Affiliation*	*Notes*
10/8/1993	F. Smith	Myra L Frank & Associates	

Associated reports

Report No.	*Year*	*Title*	*Affiliation*
LA-08828	2007	Cultural Resources Records Search and Site Visit Results for Royal Streel Communications, Llc Candidate La2337a (i-10 at White), 875 West Orange Grove, Avenue, Pomona, Los Angeles County, California	Michael Brandman Associates

Location information

County: Los Angeles
USGS quad(s): SAN DIMAS
Address:

Address	*City*	*Assessor's parcel no.*	*Zip code*
551 E Burdick Dr	Pomona	8358-004-009	

PLSS:
UTMs:

Management status

Database record metadata

	Date	*User*
Entered:	5/1/2008	jay
Last modified:	6/19/2012	sstjames

IC actions:

Date	*User*	*Action taken*
5/1/2008	jay	Appended records from Encodent database.

Record status:

Resource Detail: P-19-150402

Identifying information

Primary No.: P-19-150402
Trinomial:
Name: Joe Wilkins House
Other IDs:

Type	*Name*
OHP Property Numb	092978
Resource Name	Joe Wilkins House

Cross-refs:

Attributes

Resource type: Building
Age: Historic
Information base: Other
Attribute codes: HP02 (Single family property)
Disclosure: Unrestricted
Collections: No
Accession no(s):
Facility:

General notes

Recording events

Date	*Recorder(s)*	*Affiliation*	*Notes*
10/8/1993	F. Smith	Myra L frank & Associates	

Associated reports

Report No.	*Year*	*Title*	*Affiliation*
LA-10280	2009	Cultural Resource Records Search and Site Visit Results for Clearwire Candidate CA-LOS0092A (Church Steeple), 217 East McKinley Ave., Pomona, Los Angeles County, California	MBA

Location information

County: Los Angeles
USGS quad(s): SAN DIMAS
Address:

Address	*City*	*Assessor's parcel no.*	*Zip code*
403 E Kenoak Pl	Pomona	8358-001-004	

PLSS:
UTMs:

Management status

Database record metadata

	Date	*User*
Entered:	5/1/2008	jay
Last modified:	5/31/2012	mgalaz

IC actions:

Date	*User*	*Action taken*
5/1/2008	jay	Appended records from Encodent database.

Record status:

Resource Detail: P-19-150403

Identifying information

Primary No.: P-19-150403
Trinomial:
Name: 465 E Kenoak Pl
Other IDs:

Type	*Name*
OHP Property Numb	092981
Resource Name	465 E Kenoak Pl

Cross-refs:

Attributes

Resource type: Building
Age: Historic
Information base: Other
Attribute codes: HP02 (Single family property)
Disclosure: Unrestricted
Collections: No
Accession no(s):
Facility:

General notes

Recording events

Date	*Recorder(s)*	*Affiliation*	*Notes*
10/8/1993	F. Smith	Myra L Frank & Associates	

Associated reports

Location information

County: Los Angeles
USGS quad(s): SAN DIMAS
Address:

Address	*City*	*Assessor's parcel no.*	*Zip code*
465 E Kenoak Pl	Pomona	8359-021-009	

PLSS:
UTMs:

Management status

Database record metadata

	Date	*User*
Entered:	5/1/2008	jay
Last modified:	11/5/2012	sstjames

IC actions:

Date	*User*	*Action taken*
5/1/2008	jay	Appended records from Encodent database.

Record status:

Resource Detail: P-19-150404

Identifying information

Primary No.: P-19-150404
Trinomial:
Name: 493 E Kenoak Pl
Other IDs:

Type	*Name*
OHP Property Numb	092982
Resource Name	493 E Kenoak Pl

Cross-refs:

Attributes

Resource type: Building
Age: Historic
Information base: Other
Attribute codes: HP02 (Single family property)
Disclosure: Unrestricted
Collections: No
Accession no(s):
Facility:

General notes

Recording events

Date	*Recorder(s)*	*Affiliation*	*Notes*
10/8/1993	F. Smith	Myra L frank & Associates	

Associated reports

Location information

County: Los Angeles
USGS quad(s): SAN DIMAS
Address:

Address	*City*	*Assessor's parcel no.*	*Zip code*
493 E Kenoak Pl	Pomona	8359-021-010	

PLSS:
UTMs:

Management status

Database record metadata

	Date	*User*
Entered:	5/1/2008	jay
Last modified:	11/5/2012	sstjames

IC actions:

Date	*User*	*Action taken*
5/1/2008	jay	Appended records from Encodent database.

Record status:

Resource Detail: P-19-150405

Identifying information

Primary No.: P-19-150405
Trinomial:
Name: J R Wilson House
Other IDs:

Type	*Name*
Resource Name	J R Wilson House

Cross-refs:

Attributes

Resource type: Building
Age: Historic
Information base: Other
Attribute codes: HP02 (Single family property)
Disclosure: Unrestricted
Collections: No
Accession no(s):
Facility:

General notes

Recording events

Date	*Recorder(s)*	*Affiliation*	*Notes*
10/8/1993	F. Smith	Myra L Frank & Associates	

Associated reports

Report No.	*Year*	*Title*	*Affiliation*
LA-08800	2006	Cultural Resources Records Search Results and Site Visit for Cingular Telecommunications Facility Candidate Es-0052-03 (pomona Nazarene) 217 East Mckinley, Pomona, Los Angeles County, California	Michael Brandman Associates
LA-10280	2009	Cultural Resource Records Search and Site Visit Results for Clearwire Candidate CA-LOS0092A (Church Steeple), 217 East McKinley Ave., Pomona, Los Angeles County, California	MBA

Location information

County: Los Angeles
USGS quad(s): SAN DIMAS
Address:

Address	*City*	*Assessor's parcel no.*	*Zip code*
1382 N Park Ave	Pomona	8339-029-023	

PLSS:
UTMs:

Management status

Database record metadata

	Date	*User*
Entered:	5/1/2008	jay
Last modified:	6/19/2012	sstjames

IC actions:

Date	*User*	*Action taken*
5/1/2008	jay	Appended records from Encodent database.

Record status:

Resource Detail: P-19-150406

Identifying information

Primary No.: P-19-150406
Trinomial:
Name: 1355 N Park Ave
Other IDs:

Type	*Name*
OHP Property Numb	092984
Resource Name	1355 N Park Ave

Cross-refs:

Attributes

Resource type: Building
Age: Historic
Information base: Other
Attribute codes: HP02 (Single family property)
Disclosure: Unrestricted
Collections: No
Accession no(s):
Facility:

General notes

Recording events

Date	*Recorder(s)*	*Affiliation*	*Notes*
10/8/1993	F. Smith	Myra L Frank & Associates	

Associated reports

Report No.	*Year*	*Title*	*Affiliation*
LA-10280	2009	Cultural Resource Records Search and Site Visit Results for Clearwire Candidate CA-LOS0092A (Church Steeple), 217 East McKinley Ave., Pomona, Los Angeles County, California	MBA

Location information

County: Los Angeles
USGS quad(s): SAN DIMAS
Address:

Address	*City*	*Assessor's parcel no.*	*Zip code*
1355 N Park Ave	Pomona	8358-001-014	

PLSS:
UTMs:

Management status

Database record metadata

	Date	*User*
Entered:	5/1/2008	jay
Last modified:	11/5/2012	sstjames

IC actions:

Date	*User*	*Action taken*
5/1/2008	jay	Appended records from Encodent database.

Record status:

Resource Detail: P-19-150407

Identifying information

Primary No.: P-19-150407
Trinomial:
Name: B F Hendricks House
Other IDs:

Type	*Name*
OHP Property Numb	092985
Resource Name	B F Hendricks House

Cross-refs:

Attributes

Resource type: Building
Age: Historic
Information base: Other
Attribute codes: HP02 (Single family property)
Disclosure: Unrestricted
Collections: No
Accession no(s):
Facility:

General notes

Recording events

Date	*Recorder(s)*	*Affiliation*	*Notes*
10/8/1993	F. Smith	Myra L Frank & Associates	

Associated reports

Report No.	*Year*	*Title*	*Affiliation*
LA-10280	2009	Cultural Resource Records Search and Site Visit Results for Clearwire Candidate CA-LOS0092A (Church Steeple), 217 East McKinley Ave., Pomona, Los Angeles County, California	MBA

Location information

County: Los Angeles
USGS quad(s): SAN DIMAS
Address:

Address	*City*	*Assessor's parcel no.*	*Zip code*
1448 N Gordon St	Pomona	8339-028-016	

PLSS:
UTMs:

Management status

Database record metadata

	Date	*User*
Entered:	5/1/2008	jay
Last modified:	6/19/2012	sstjames

IC actions:

Date	*User*	*Action taken*
5/1/2008	jay	Appended records from Encodent database.

Record status:

Resource Detail: P-19-150408

Identifying information

Primary No.: P-19-150408
Trinomial:
Name: Dr Cordellia M Richmond Residence
Other IDs:

Type	*Name*
OHP Property Numb	092987
Resource Name	Dr Cordellia M Richmond Residence

Cross-refs:

Attributes

Resource type: Building
Age: Historic
Information base: Other
Attribute codes: HP02 (Single family property)
Disclosure: Unrestricted
Collections: No
Accession no(s):
Facility:

General notes

Recording events

Date	*Recorder(s)*	*Affiliation*	*Notes*
10/8/1993	F. Smith	Myra L Frank & Associates	

Associated reports

Report No.	*Year*	*Title*	*Affiliation*
LA-03779	1994	Historic Property Survey Report Provide High Occupancy Vehicle Lanes on Interstate 10 Between Sr 57/i-210 and the Los Angeles County/san Bernardino County Line in Los Angeles County 07-la-10-41.7/48.3	Myra L. Frank & Associates, Inc.
LA-10280	2009	Cultural Resource Records Search and Site Visit Results for Clearwire Candidate CA-LOS0092A (Church Steeple), 217 East McKinley Ave., Pomona, Los Angeles County, California	MBA

Location information

County: Los Angeles
USGS quad(s): SAN DIMAS
Address:

Address	*City*	*Assessor's parcel no.*	*Zip code*
1355 N Park Ave	Pomona	8359-021-004	

PLSS:
UTMs:

Management status

Database record metadata

	Date	*User*	
Entered:	5/1/2008	jay	
Last modified:	6/19/2012	sstjames	
IC actions:	*Date*	*User*	*Action taken*
	5/1/2008	jay	Appended records from Encodent database.

Record status:

Resource Detail: P-19-180714

Identifying information

Primary No.: P-19-180714
Trinomial:
Name: Barbara Greenwood Kindergarten
Other IDs:

Type	*Name*
OHP Property Numb	034740
Resource Name	Barbara Greenwood Kindergarten

Cross-refs: See also 19-187750

Attributes

Resource type: Building
Age: Historic
Information base: Other
Attribute codes: HP15 (Educational building)
Disclosure: Unrestricted
Collections: No
Accession no(s):
Facility:

General notes

Recording events

Date	*Recorder(s)*	*Affiliation*	*Notes*
9/14/1977	T. Sitton	LA County Museum of Natural History	
7/1/1977	R. Hatheway	Natural History Museum	

Associated reports

Report No.	*Year*	*Title*	*Affiliation*
LA-12254	2012	Cultural Resources Records Search and Site Visit Results for T-Mobile West, LLC Candidate IE04241A (SB104 First Christian Church) 1751 North Park Avenue, Pomona, Los Angeles County, California	MBA

Location information

County: Los Angeles
USGS quad(s): SAN DIMAS
Address:

Address	*City*	*Assessor's parcel no.*	*Zip code*
Hacienda Place & McKinley Ave	Pomona		

PLSS:
UTMs:

Management status

Database record metadata

	Date	*User*
Entered:	9/3/2008	
Last modified:	12/22/201	sstjames

IC actions:

Date	*User*	*Action taken*
9/3/2008	jay	Appended data from Encodent database (standalone historics table; not in Sites-All)

Record status:

Resource Detail: P-19-180726

Identifying information

Primary No.: P-19-180726
Trinomial:
Name: La Casa Primera de Rancho
Other IDs:

Type	*Name*
OHP Property Numb	034747
Resource Name	La Casa Primera de Rancho
Other	First house of Ygnacio Palomares

Cross-refs:

Attributes

Resource type: Building
Age: Historic
Information base: Other
Attribute codes: HP44 (Adobe building/structure)
Disclosure: Unrestricted
Collections: No
Accession no(s):
Facility:

General notes

Recording events

Date	*Recorder(s)*	*Affiliation*	*Notes*
1/18/1974	E. Zilles	Historical Society of Pomona Valley Inc	

Associated reports

Report No.	*Year*	*Title*	*Affiliation*
LA-12254	2012	Cultural Resources Records Search and Site Visit Results for T-Mobile West, LLC Candidate IE04241A (SB104 First Christian Church) 1751 North Park Avenue, Pomona, Los Angeles County, California	MBA

Location information

County: Los Angeles
USGS quad(s): SAN DIMAS
Address:

Address	*City*	*Assessor's parcel no.*	*Zip code*
1569 N Park Ave	Pomona		

PLSS:
UTMs:

Management status

Database record metadata

	Date	*User*
Entered:	9/3/2008	
Last modified:	12/22/201	sstjames

IC actions:

Date	*User*	*Action taken*
9/3/2008	jay	Appended data from Encodent database (standalone historics table; not in Sites-All)

Record status:

Resource Detail: P-19-187025

Identifying information

Primary No.: P-19-187025
Trinomial:
Name: C P Stensgard Residence
Other IDs:

Type	*Name*
OHP Property Numb	123678
Resource Name	C P Stensgard Residence

Cross-refs:

Attributes

Resource type: Building
Age: Historic
Information base: Other
Attribute codes: HP03 (Multiple family property)
Disclosure: Unrestricted
Collections:
Accession no(s):
Facility:

General notes

Recording events

Date	*Recorder(s)*	*Affiliation*	*Notes*
10/14/1999	D. Kane	Caltrans	

Associated reports

Location information

County: Los Angeles
USGS quad(s): SAN DIMAS
Address:

Address	*City*	*Assessor's parcel no.*	*Zip code*
565 Burdick Dr	Pomona	8358-004-004	

PLSS:
UTMs:

Management status

Database record metadata

	Date	*User*
Entered:	9/3/2008	
Last modified:	7/31/2012	sstjames

IC actions:

Date	*User*	*Action taken*
9/3/2008	jay	Appended data from Encodent database (standalone historics table; not in Sites-All)

Record status:

Resource Detail: P-19-187082

Identifying information

Primary No.: P-19-187082
Trinomial:
Name: Pomona City Stable
Other IDs:

Type	*Name*
OHP Property Numb	143208
Resource Name	Pomona City Stable

Cross-refs:

Attributes

Resource type: Building
Age: Historic
Information base: Other
Attribute codes: HP04 (Ancillary building)
Disclosure: Unrestricted
Collections:
Accession no(s):
Facility:

General notes

Recording events

Date	*Recorder(s)*	*Affiliation*	*Notes*
2/14/2004	M. Griffin	Pomona Valley Historical Society	

Associated reports

Location information

County: Los Angeles
USGS quad(s): SAN DIMAS
Address:

Address	*City*	*Assessor's parcel no.*	*Zip code*
636 W Monterey Ave	Pomona		91768

PLSS:
UTMs:

Management status

Database record metadata

	Date	*User*
Entered:	5/1/2008	jay
Last modified:	7/31/2012	sstjames

IC actions:

Date	*User*	*Action taken*
5/1/2008	jay	Appended records from Encodent database.

Record status:

Resource Detail: P-19-188027

Identifying information

Primary No.: P-19-188027
Trinomial:
Name: Malosos Place
Other IDs:

Type	*Name*
Resource Name	Malosos Place
Other	The Space Gallery
Other	The Doggie Place

Cross-refs:

Attributes

Resource type: Building
Age: Historic
Information base: Other
Attribute codes: HP06 (1-3 story commercial building)
Disclosure: Unrestricted
Collections:
Accession no(s):
Facility:

General notes

Recording events

Date	*Recorder(s)*	*Affiliation*	*Notes*
2/1/2007	C. Tibbet & S. Carmack	LSA	

Associated reports

Report No.	*Year*	*Title*	*Affiliation*
LA-08665	2007	Historic Resources Assessment: Downtown Pomona Demolition Project, City of Pomona, Los Angeles County, California	LSA Associates, Inc.
LA-09894	2008	Historic Resources Assessment: Monterey Station, Pomona, Los Angeles County, California	McKenna et al.
LA-11327	2011	Cultural Resource Records Search and Site Survey AT&T Site LA0180 Veteran's Affairs 11301 Wilshire Boulevard, Los Angeles, Los Angeles County, California 90073 Casper #3551017338	ACE Environmental, LLC

Location information

County: Los Angeles
USGS quad(s): SAN DIMAS
Address:

Address	*City*	*Assessor's parcel no.*	*Zip code*
439-449-455 W Second St	Pomona	8341-002-006	91766

PLSS:
UTMs:

Management status

Database record metadata

	Date	*User*
Entered:	5/1/2008	jay
Last modified:	8/7/2012	mgalaz

IC actions:

Date	*User*	*Action taken*
5/1/2008	jay	Appended records from Encodent database.

Record status:

Resource Detail: P-19-188028

Identifying information

Primary No.: P-19-188028
Trinomial:
Name: Flamin' Willie's Chili
Other IDs:

Type	*Name*
Resource Name	Flamin' Willie's Chili

Cross-refs:

Attributes

Resource type: Building
Age: Historic
Information base: Other
Attribute codes: HP06 (1-3 story commercial building)
Disclosure: Unrestricted
Collections:
Accession no(s):
Facility:

General notes

Recording events

Date	*Recorder(s)*	*Affiliation*	*Notes*
2/1/2007	C. Tibbet & S. Carmack	LSA	

Associated reports

Report No.	*Year*	*Title*	*Affiliation*
LA-08665	2007	Historic Resources Assessment: Downtown Pomona Demolition Project, City of Pomona, Los Angeles County, California	LSA Associates, Inc.
LA-09894	2008	Historic Resources Assessment: Monterey Station, Pomona, Los Angeles County, California	McKenna et al.

Location information

County: Los Angeles
USGS quad(s): SAN DIMAS
Address:

Address	*City*	*Assessor's parcel no.*	*Zip code*
435 W 2nd St	Pomona	8341-002-007	91766

PLSS:
UTMs:

Management status

Database record metadata

	Date	*User*
Entered:	5/1/2008	jay
Last modified:	8/7/2012	mgalaz

IC actions:

Date	*User*	*Action taken*
5/1/2008	jay	Appended records from Encodent database.

Record status:

Resource Detail: P-19-188029

Identifying information

Primary No.: P-19-188029
Trinomial:
Name: Ava Riety Designs/Emerald Crest
Other IDs:

Type	*Name*
Resource Name	Ava Riety Designs/Emerald Crest
Other	Pomona Block
Other	Special Gifts

Cross-refs:

Attributes

Resource type: Building
Age: Historic
Information base: Other
Attribute codes: HP06 (1-3 story commercial building)
Disclosure: Unrestricted
Collections:
Accession no(s):
Facility:

General notes

Recording events

Date	*Recorder(s)*	*Affiliation*	*Notes*
2/1/2007	C. Tibbet & S. Carmack	LSA	

Associated reports

Report No.	*Year*	*Title*	*Affiliation*
LA-08665	2007	Historic Resources Assessment: Downtown Pomona Demolition Project, City of Pomona, Los Angeles County, California	LSA Associates, Inc.
LA-09894	2008	Historic Resources Assessment: Monterey Station, Pomona, Los Angeles County, California	McKenna et al.

Location information

County: Los Angeles
USGS quad(s): SAN DIMAS
Address:

Address	*City*	*Assessor's parcel no.*	*Zip code*
409-417-429 W 2nd St	Pomona	8341-002-008	91766

PLSS:
UTMs:

Management status

Database record metadata

	Date	*User*
Entered:	5/1/2008	jay
Last modified:	8/7/2012	mgalaz

IC actions:

Date	*User*	*Action taken*
5/1/2008	jay	Appended records from Encodent database.

Record status:

Resource Detail: P-19-188032

Identifying information

Primary No.: P-19-188032
Trinomial:
Name:
Other IDs:
Cross-refs:

Attributes

Resource type: Building
Age: Historic
Information base: Other
Attribute codes: HP06 (1-3 story commercial building)
Disclosure: Unrestricted
Collections:
Accession no(s):
Facility:

General notes

Recording events

Date	Recorder(s)	Affiliation	Notes
2/1/2007	C. Tibbet & S. Carmack	LSA	

Associated reports

Report No.	Year	Title	Affiliation
LA-08665	2007	Historic Resources Assessment: Downtown Pomona Demolition Project, City of Pomona, Los Angeles County, California	LSA Associates, Inc.
LA-09894	2008	Historic Resources Assessment: Monterey Station, Pomona, Los Angeles County, California	McKenna et al.

Location information

County: Los Angeles
USGS quad(s): SAN DIMAS
Address:

Address	City	Assessor's parcel no.	Zip code
154 S Main St	Pomona	8341-001-012	91766

PLSS:
UTMs:

Management status

Database record metadata

	Date	User	
Entered:	5/1/2008	jay	
Last modified:	8/7/2012	mgalaz	
IC actions:	*Date*	*User*	*Action taken*
	5/1/2008	jay	Appended records from Encodent database.

Record status:

Resource Detail: P-19-188036

Identifying information

Primary No.: P-19-188036
Trinomial:
Name: Western Mobile Garden Trailer Park
Other IDs:

Type	*Name*
Resource Name	Western Mobile Garden Trailer Park

Cross-refs:

Attributes

Resource type: Building
Age: Historic
Information base: Other
Attribute codes: HP39 (Other)
Disclosure: Unrestricted
Collections:
Accession no(s):
Facility:

General notes

Recording events

Date	*Recorder(s)*	*Affiliation*	*Notes*
2/1/2007	R. Goodwin & C. Tibbet	LSA	

Associated reports

Report No.	*Year*	*Title*	*Affiliation*
LA-08830	2007	Cultural Resources Assessment 1737 and 1753 West Holt Avenue City of Pomona, Los Angeles County, California	LSA Associates, Inc.

Location information

County: Los Angeles
USGS quad(s): SAN DIMAS
Address:

Address	*City*	*Assessor's parcel no.*	*Zip code*
1737 W Holt Ave	Pomona	8355-017-003	91766

PLSS:
UTMs:

Management status

Database record metadata

	Date	*User*
Entered:	5/1/2008	jay
Last modified:	8/7/2012	mgalaz

IC actions:

Date	*User*	*Action taken*
5/1/2008	jay	Appended records from Encodent database.

Record status:

Resource Detail: P-19-188186

Identifying information

Primary No.: P-19-188186
Trinomial:
Name: Pomona Church of the Brethren
Other IDs:

Type	*Name*
Resource Name	Pomona Church of the Brethren
Other	Pomona Fellowship Church

Cross-refs:

Attributes

Resource type: Building
Age: Historic
Information base: Other
Attribute codes: HP16 (Religious building)
Disclosure: Unrestricted
Collections:
Accession no(s):
Facility:

General notes

Recording events

Date	*Recorder(s)*	*Affiliation*	*Notes*
3/8/2004	C.J. Hetzel		

Associated reports

Location information

County: Los Angeles
USGS quad(s): SAN DIMAS
Address:

Address	*City*	*Assessor's parcel no.*	*Zip code*
875 W Orange Grove Ave	Pomona	8358-009-006	91768

PLSS:
UTMs:

Management status

Database record metadata

	Date	*User*
Entered:	9/2/2008	jay
Last modified:	8/8/2012	sstjames

IC actions:

Date	*User*	*Action taken*
9/2/2008	jay	Appended records from Encodent database (second round of additions)

Record status:

Resource Detail: P-19-188909

Identifying information

Primary No.: P-19-188909
Trinomial:
Name:
Other IDs:

Type	Name
OHP Property Numb	166120
Other	8357-009-008 / Garcia/991 Huntington

Cross-refs:

Attributes

Resource type: Building
Age: Historic
Information base: Survey, Other
Attribute codes: HP02 (Single family property)
Disclosure: Unrestricted
Collections: No
Accession no(s):
Facility:

General notes

Recording events

Date	Recorder(s)	Affiliation	Notes
6/11/2007	Sandra Campbell	City of Pomona	

Associated reports

Report No.	Year	Title	Affiliation
LA-10853	2007	Historic Preservation Environmental Review Site(s); 991 N. Huntington Blvd.	City of Pomona

Location information

County: Los Angeles
USGS quad(s): SAN DIMAS
Address:

Address	City	Assessor's parcel no.	Zip code
991 N Huntington Blvd	Pomona		

PLSS:
UTMs:

Management status

Database record metadata

	Date	User
Entered:	4/7/2011	mgalaz
Last modified:	8/30/2012	sstjames

IC actions:
Record status:

APPENDIX C

DEPARTMENT OF PARK AND RECREATION 523 FORMS

State of California – The Resources Agency **Primary # _____**
DEPARTMENT OF PARKS AND RECREATION **HRI # _____**
PRIMARY RECORD **Trinomial _____**
NRHP Status Code _____
Other Listings _____
Review Code _____ Reviewer _____ Date _____

 ***Resource Name or #** (Assigned by recorder) Pomona Fellowship Church of the Brethren

P1. Other Identifier: 875 W. Orange Grove Ave.
***P2. Location:** ☐ **Not for Publication** ☒ **Unrestricted** ***a. County** Los Angeles
and (P2b and P2c or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad** San Dimas **Date** 1981 **T** 1S ; **R** 8W ; Non-sectioned ; **S.B.B.M.**
c. Address 875 W. Orange Grove Ave. City Pomona Zip 91768
d. UTM: (give more than one for large and/or linear resources) Zone 11 ; 429217.72 mE/ 379947.42 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate)

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

The church is a 19,604 square-foot single-storied building, with a sanctuary occupying the west wing, the church offices occupying the central wing, and various meeting rooms in the east wing. The building is situated on a three-acre parcel that includes a large parking lot segmented by a driveway running northward. An artificial turf soccer field enclosed by green fencing and a cell tower (disguised as a tall pine tree) are located behind the church facilities, to the north/northwest. On the two parcels immediately southwest adjacent to the church, there are two residential units also associated to the Pomona Fellowship Church of the Brethren. A detached garage behind one of the residential units shares the parcel with the church building. The church building, which was developed in stages, features an irregular plan with several connected wings. The south portion of the building, which is closest to the street, features the steeply pitched gabled roofs associated with traditional ecclesiastical architecture, while the rear (north) wings are flat-roofed. The west wing sanctuary (1959) exhibits a Modernist interpretation of church architecture, while the original (1949) church is designed in a more traditional style with references to the Tudor Revival style (cont. p. 3).

***P3b. Resource Attributes:** (List attributes and codes) HP10. Church

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

P5b. Description of Photo: (View, date, accession #) Photograph 1: Southeast elevation, camera facing northwest, July 8, 2019.

***P6. Date Constructed/Age and Sources:**
☒ Historic ☐ Prehistoric ☐ Both
1949, Los Angeles County Property Information System

***P7. Owner and Address:**
Pomona Fellowship Church of the Brethren
875 W. Orange Grove Ave.
Pomona, CA 91786

***P8. Recorded by:** (Name, affiliation, address)
Kara Brunzell, Dylan Williams
BCR Consulting LLC.
585 W. Eighth Street
Claremont, CA 91784

***P9. Date Recorded:** July 8, 2019

***P10. Survey Type:** (Describe) Intensive

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") Cultural Resource Evaluation, Pomona Church of the Brethren

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

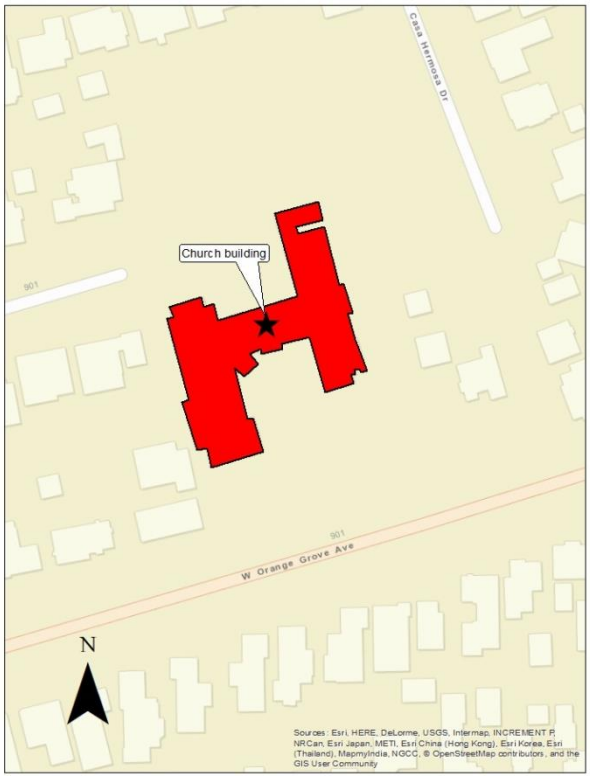
B1. Historic Name: Pomona Church of the Brethren
B2. Common Name: Pomona Fellowship Church of the Brethren
B3. Original Use: Church B4. Present Use: Church
***B5. Architectural Style:**
***B6. Construction History:** (Construction date, alteration, and date of alterations)
1949, Original construction of church building, including current social hall/meeting room, kitchen, and the education wing
1959, Construction of current sanctuary (west wing) and choir/Sunday school rooms (northwest wing) alteration of west end of original center wing with corner entrance addition
1978, Construction of detached garage
Unknown dates, replacement of original wood windows, replacement of original wood doors, removal of decorative leaded glass at original entrance

***B7. Moved?** ☒ **No** ☐ **Yes** ☐ **Unknown** **Date:** _____ **Original Location:** _____
***B8. Related Features:** _____
B9. Architect: Louis Gamble & Assoc. of Long Beach (1949), Frick & Frick Architects of Pasadena (1959 additions) b. Builder: Congregation/volunteers (1949), Edward's Construction Company of Pomona (1959 additions)
***B10. Significance: Theme** N/A **Area** N/A
Period of Significance N/A **Property Type** N/A **Applicable Criteria** N/A
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)
B11. Additional Resource Attributes: (List attributes and codes)
***B12. References:**
(See Footnotes)
B13. Remarks:

***B14. Evaluator:** Kara Brunzell

***Date of Evaluation:** July 9, 2019

(This space reserved for official comments.)



***P3a. Description: (continued):**

The projecting west wing is the most prominent section of the building. In addition to being closer to the street is taller and larger in plan than the other wings. Its steeply-pitched roof is topped with a simple cross at the south end of the ridgeline. The wing is clad in a combination of stucco and brick with brick details of brick. The tall main (south) façade has a projecting stucco panel at its center where stain-glassed windows would be placed on a traditionally-designed church. It is flanked by recessed areas clad in yellow roman brick, and four nearly square windows within the recesses face north and south. The façade lacks other fenestration. The south end of the wing's east and west elevations feature stucco walls with steel casement windows. Their large diamond-shaped are fitted with bright-colored textured glass, and window sills are brick. The north end of the wing is recessed, and an entrance to the sanctuary in the recessed section of the west elevation is sheltered by a projecting shed roof. The entry porch walls are clad in manufactured stone. An entrance on the east elevation is sheltered only by the main roof. The rear section of the east elevation is stucco with brick trim and decorative buttresses executed in brick. Narrow windows have brick accents and steel sash. The main entrance to the sanctuary is located at the junction between the original church and the west wing, and is oriented toward the corner of the building so it faces southeast. It is fitted with two sets of double doors. Its projecting canopy features a heavy flat roof with cornice and is supported by square posts.

The northwest wing is behind the sanctuary. Most of its roof is flat, with a side-gabled section near its south end that is extends from the original church. The northwest wing is primarily utilitarian in character, with stucco cladding and varied fenestration.

Photograph 2: Church of the Brethren, south (main) and east elevations, camera facing north, July 8, 2019.

Photograph 3: Detailed view of façade of the west wing, southeastern elevation, camera facing north, July 8, 2019.

Photograph 4: Detail, stained glass windows with aluminum framing and brick window sill along southwestern elevation, July 8, 2019.

Photograph 5: Detail, west entry porch, July 8, 2019.

Photograph 6: Northwest wing with rear play area with walkways and play area; entire area is bordered by metal fencing, camera facing southwest, July 8, 2019.

The original church is T-shaped, with ecclesiastical architecture at the south near the street and simpler facades at the rear (north). It is clad in stucco and brick with wood trim, and has a flared gable roof. The cross-gabled center wing connects to both the 1959 and 1949 sanctuaries. Its large steeple rests on the ridgeline behind the original main entrance. The steeple's tall metal spire rests on a tiered wooden base with louvered vents. The entrance is sheltered by a projecting front-gabled roof. Its gable end features decorative half-

timbering which evokes the Tudor Revival style. The entrance is fitted with modern aluminum-frame glazed doors. A covered walkway leading from the entrance to the east wing is sheltered by a less steeply-pitched section of roof. Wood posts with shaped brackets form a colonnade.

Photograph 7: Center wing (original church) with 1959 sanctuary left of frame and original sanctuary right, south elevation, camera facing northwest, July 8, 2019.

Photograph 8: Detail, 1959 and 1910/1924 cornerstones, July 8, 2019.

The southeast wing is the original sanctuary. It has a small spire near the south end of its ridgeline. Three traditional stained-glass windows with pointed-arch shape adorn the south elevation. There is a brick planter below the windows that supports the church sign. There is a recessed entryway to the east of the south façade fitted with a paneled wood door. The west elevation lacks ornament. Its most

prominent feature is a large brick chimney with decorative brickwork near its center. Simple rectangular windows openings are fitted with vinyl replacement windows.

Photograph 9: Center and southeast wings, south and east elevations, July 8, 2019.

Photograph 10: Southeast wing, south elevation, camera facing north, July 8, 2019.

The east elevation of the southeast wing has a central flat-roofed volume flanked by two projecting gabled volumes. Original fenestration consisting of double-hung multiple light wood sash is present at the south end of the façade, but most windows have been replaced with

vinyl sash. There are two entrances, and the projecting gabled volumes feature flared eaves, louvered vents at the gable end, and Tudor Revival-style decorative wood trim. The flat-roofed northeast wing has paired windows fitted with vinyl replacement sash and a large chimney on its east elevation. There is a pair of modern aluminum frame glazed doors on its east elevation. The northeast wing lacks decorative features and references to Tudor Revival architecture.

Photograph 11: East elevation of southeast wing, camera facing west, July 8, 2019.

Photograph 12: Eastern portion of the courtyard and grassy play area located in the rear of the church building, camera facing east, July 8, 2019.

Photograph 14: South and west elevations of the detached garage adjacent to asphalt driveway, camera facing northeast, July 8, 2019.

Figure 2: The Pomona Fellowship Church of the Brethren building upon its completion, February 1949.

Figure 3: Laying of bricks near the entrance of the new Pomona Fellowship Church of the Brethren building, February 1950.

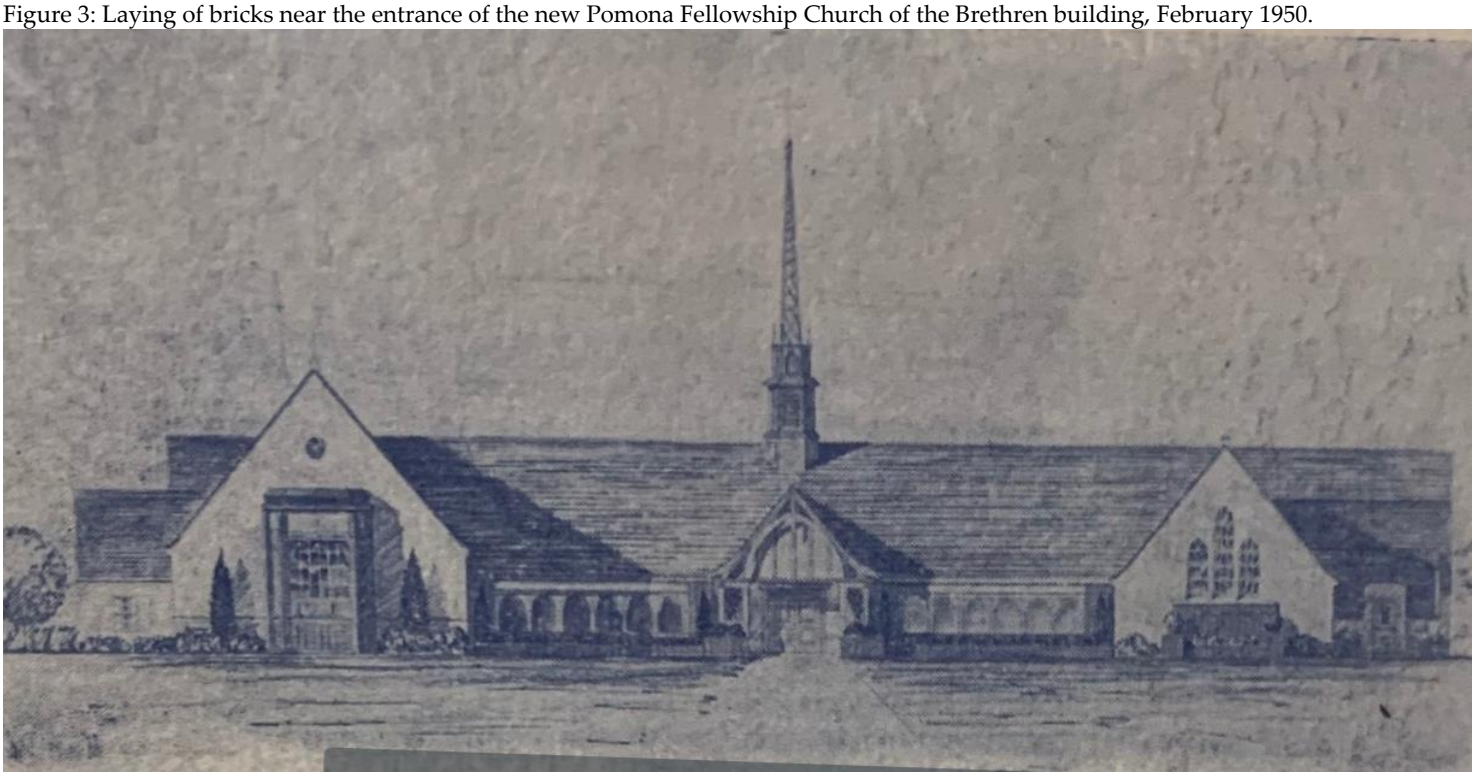


Figure 4: Architect's rendering, Pomona Church of the Brethren Bulletin, Dedication, February 19, 1950.

B10. Significance (continued):

Historic Context of Pomona

Prehistoric, Spanish, and Mexican Periods

The Gabrielino-Tongva people occupied the Pomona area with its abundant natural resources prior to the arrival of Spanish missionaries in 1769. Mexican independence from Spain in 1834 led to secularization of the missions and distribution of mission lands into large landowners. Ygnacio Palomares and Ricardo Vejar were sons of Spanish loyalists and explorers who managed cattle and horses at Rancho de las Aguas. In 1837, Mexican Governor Juan Bautista Alvarado granted 22,430 acres of former Mission San Gabriel grazing lands to Palomares and Vejar, who named the territory Rancho San Jose. The land was split between the two men, with present-day Pomona lying within both Palomares' northern half, Rancho San Jose de Arriba, and Vejar's southern half, Rancho San Jose de Abajo. As California transitioned to American statehood following the Mexican-American War in 1850, the region began a process of dynamic changes. The development of two roads running from San Bernardino through the rancho, one directed west toward Los Angeles and another south toward Temecula, previewed Pomona's future as a commercial hub.[1]

American Foundations in Pomona

Ricardo Vejar settled a $28,000 debt to speculator Isaac Schlesinger by deeding him San Jose de Abajo. After controversy over his right to ownership, Schlesinger sold the property to successful and experienced rancher Louis Phillips in 1866. Phillips established a mansion on the land and improved oversight over ranching operations. Phillips' most impactful contribution to Pomona's history was when he ultimately sold nearly three thousand to the Pomona Land and Water Company (PLWC) in 1882. The company was organized in 1882 to harness water and to facilitate sale of land to prospective Pomona residents. Booming land speculation and organized residential settlements led to the formal incorporation of Pomona (named after the Roman goddess of fruitful abundance) in 1888.[2]
Arrival of the railroads in the 1880s facilitated the emigration of newcomers to Pomona and stimulated growth in the emerging citrus industry. In the 1870s and 1880s that vast acreages of citrus groves were being cultivated by Pomona settlers. The Pomona citrus industry's place along two major railroad lines at the heart of Southern California's broader citrus-growing empire made the town an opportune and alluring settlement during western American expansion through the turn of the twentieth century. By 1890, the city reported 3,634 people living within its limits. By 1911, Pomona had become a charter City.[3]

Twentieth Century Expansion

Internal development and modernization characterized mid-twentieth century Pomona's growth as an American city. Despite being an overwhelmingly white population, the twentieth century saw an influx of African Americans, Chinese, and, most notably, Japanese and Latino laborers. While Japanese immigrants were the largest minority group in Pomona until the 1920s, state legislation restricted their numbers in subsequent years so that Latinos the predominant demographic of citrus industry workers. Flooding concerns necessitated the 1924 construction of Puddingstone Dam northwest of Pomona, simultaneously creating a 250-acre lake for the region's recreational usage. The Fox Theater in downtown Pomona opened in 1931 as a premier cinematic venue Special interest groups and social welfare organizations arose for purposes ranging from women's social clubs to childcare for the physically handicapped.[4]

The city of Pomona and the surrounding towns founded upon rich agriculture saw the continued success of local citrus production translate into a multibillion-dollar industry by the late 1930s. The agricultural character Pomona was capitalized upon with the inauguration of the Los Angeles County Fair, and the inaugural fair opened in October 1922 to nearly 50,000 residents and visitors. Pomona solicited volunteer services to aid defense preparation during World War II, and one in every ten residents received some form of defense training. Over 3,000 men between ages twenty-one and thirty-six registered for the draft from Pomona and neighboring cities. The Los Angeles County Fairgrounds was appropriated for use as a Japanese detention center during the war, then as an army training center.

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[1] William F. King, *Pomona: the Citrus Empire* (Carlsbad: Heritage Media Corp., 2001), 11-13, 20-21, 23;"History of Pomona," City of Pomona, accessed 27 June 2019, https://www.ci.pomona.ca.us/index.php/about/about-pomona.; *Pomona Valley Community Book*, ed. Roy L. Driscoll (Pomona: Arthur H. Cawston, 1950), 10-11, 15.; Mickey Gallivan and the Historical Society of Pomona Valley, *Early Pomona* (Charleston: Arcadia Publishing, 2007), 7-8; Frank Parkhurst Brackett, *History of Pomona Valley, California, with biographical sketches of the leading men and women of the valley who have been identified with its growth and development from the early days to the present* (Los Angeles: Historic Record Company, 1920), 34-38, 50-51.

[2] Gallivan, *Early Pomona*, 8.; *Pomona Valley Community Book*, 33-34, 43.; Norton B. Stern, "Louis Phillips of the Pomona Valley: Rancher and Real Estate Investor," Southern California Quarterly 65, no. 2 (Summer 1983): 171-173, 181.; F.L. Palmer, *Pomona, Illustrated and Described* (Pomona: Pomona Land and Water Co., 1885), 15, 19.

[3] Stern, "Louis Phillips of the Pomona Valley," 178.; "History of Pomona," City of Pomona, accessed 27 June 2019.; King, *Pomona: the Citrus Empire*, 40-41, 58-59.; *Pomona Valley Community Book*, 72-74, 85-91.; United States Bureau of the Census, *Report on the Population of the United States 1890*, (Washington, D.C.: Government Printing Office, 1864), 71.

[4] King, *Pomona: the Citrus Empire*, 80, 88.; *Pomona Valley Community Book*, 81.; Gallivan, *Early Pomona*, 10.;.

After the war, Pomona saw increased commercial, civic, and infrastructural development as the economy shifted away from agricultural dominance to consumer culture. Returning war veterans, continued immigration to California, rising land values from commercial development, and construction of new residences changed the landscape of the city. Like other former agricultural hubs in Southern California Pomona grew into a bedroom community after World War II. Its population expanded from 13,505 residents in 1920 to 67,157 residents in 1960. The 1950s and 1960s saw the construction of the 10 Freeway through Pomona with the rise of the personal automobile, and the emergence of regional shopping centers and malls.[5]

Construction of the freeway through the heart of Pomona brought a substantial transformation of the community. Its accessibility from Los Angeles spurred residential development and a rapid population increase and demographic change. Of the 22,000 new residents who moved to Pomona between 1960 and 1966, 17,000 were African American (of from only eight families at the start of the decade). Downtown retail suffered as white business owners refused to adapt to the new residents and regional malls drew shoppers to nearby towns. Transformation of streets to pedestrian malls ultimately failed revitalize the local economy, although it included construction of some architecturally notable bank buildings like Millard Sheets' 1963 Home Savings Tower. Downtown redevelopment also resulted in a civic center complex (half of its planned twelve buildings were complete by 1969, the remaining six were never constructed). The New Formalist complex is notable for its concentration of buildings designed by Welton Becket & Associates. [6]

Pomona Today

In recent decades, Pomona's evolution into a modern-day city was driven by expansive development and further diversification. City residences and business began to spread toward the north and east, toward neighboring La Verne and Claremont. Construction of the Route 60 Freeway, colloquially known as the "Pomona Freeway," cut through the southern part of the city, offering new routes of transportation to the east and west and, consequentially, new business opportunities along the route. Major institutions such as Cal Poly Pomona and Pomona Valley Hospital Medical Center also saw significant improvements paralleling the city's own growth. These expanded institutions were necessitated by the large influx of residents from Los Angeles and its surrounding areas of high population to suburb cities like Pomona beginning in the 1960s. Conditions for racial minorities living in the area, specifically Latinos and African Americans, have changed drastically. In the latter half of the century, Latino communities once accustomed to abundant working opportunities and decent wages in citrus production saw the market's decline and experienced a transition to the less lucrative industrial labor force. Meanwhile, the Latino population became the majority demographic, and many Latinos have held political positions of prominence. Social welfare groups like the Pomona chapter of the Urban League also worked to provide food, shelter, and civil rights activist support to improve living conditions for African Americans in the city. Today, Pomona is the diverse home to over 151,000 residents, making up the seventh largest city in Los Angeles County. [7]

Alkire Ranch

In 1890, Josiah Alkire purchased thirteen acres of land formerly held by the Palomares family from George Rhorer for $13,000 and resided there with his wife and sons. Alkire had been a prosperous grocer from St. Louis before arriving and purchasing the property, which already had mature orange groves. Collaborating with the neighboring Phelan family in 1895, the Alkires applied for a right of way to establish a water tunnel through their respective properties. The tunnel tapped into several subterranean streams originating in the foothills and provided irrigation for numerous estates including the subject property.[8]

Pomona Fellowship Church of the Brethren

The Pomona Church of the Brethren congregation began in a small one-room building on the corner of Gibbs Street and Monterey Avenue in 1907, where congregants from the neighboring Lordsburg (present-day La Verne) church were trying to formally organize a church.

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[5] Matt Garcia, *A World of its Own: Race, Labor, and Citrus in the Making of Greater Los Angeles, 1900-1970* (Chapel Hill: University of North Carolina Press, 2001), 23.; "Our History," Pomona Fairplex, accessed 27 June 2019, https://fairplex.com/aboutus/our-history; *Pomona Valley Community Book*, 184-186.; King, *Pomona: the Citrus Empire*, 96-97; United States Bureau of the Census, *Census of Population: 1960*, (Washington, D.C.: Government Printing Office, 1864), 19.

[6] Michael Sprague, Downtown Pomona's Renaissance, LaVerne Magazine, 6 September 2019, accessed 18 November 2020, https://lavernemagazine.org/2019/09/downtown-pomonas-renaissance/; Los Angeles Conservancy, Pomona Civic Center, 2020, accessed 18 November 2020, https://www.laconservancy.org/locations/pomona-civic-center.

[7] King, *Pomona: the Citrus Empire*, 104-105.; "Heritage – a Brief History," Cal Poly Pomona, accessed 1 July 2019, https://www.cpp.edu/~aboutcpp/heritage/index.shtml.; "History of PVHMC," Pomona Valley Hospital Medical Center, accessed 1 July 2019, https://www.pvhmc.org/About-Us/Our-History.aspx., Garcia, *A World of Its Own*, 225-226.

[8] "Horticultural Notes," *Los Angeles Times*, April 18, 1890, 7; "Pomona – Progress of the Great Alkire-Phelan Tunnel," Los Angeles Times, July 3, 1894, 9; "Pomona Valley Brevities," Los Angeles Times, January 1, 1896, 20.

The church's first building was electrified in 1908 and had its auditorium expanded in 1910. The cornerstone indicates it was rebuilt in 1924. In 1936, when a fire irreparably damaged the building and forced relocation to an existing church building in Pomona.[9]

In 1946, Rev. Harry Thomas and his wife Dortha (who had pastored the congregation before the war) returned to Pomona and took over leadership of the congregation from Rev. John Deeter and his wife. Pomona's population was growing rapidly, and the congregation's membership had risen to 250. The congregation was also on solid financial footing, and a building committee was formed to plan a new church in 1947. The Pomona Church of the Brethren purchased nine acres of the former Alkire property and retained Louis S. Gamble and Associates to design a new church building. The large tract of land was purchased with the intention of subdividing the surrounding acreage for residential developments while retaining the rights to two existing houses southeast of the new church. Funds from leasing or selling subdivisions would pay for the large land purchase and general church maintenance. When built in 1949, the new building had a social hall (serving as the initial chapel), a kitchen, pastor's study, and an educational wing. While a professional architect was consulted for the building design, some of the construction was performed by volunteer congregants, both men and women. Budgetary constraints also limited the size of the building: the 1950 rendering indicates that architect Louis S. Gamble and Associates designed a symmetrical building with the steeple and main entrance centered between two projecting wings. Only the east wing and the connecting hyphen (center wing) were built during the first phase of development, however. The 9,000 square foot building cost $45,000. In all likelihood, the congregation intended to construct the west wing as designed by Gamble after securing additional funds.[10]

In 1952, Arthur Keim, an Indiana native who was in his mid-40s, came to Pomona with his wife Ellen and took over as pastor. The congregation's membership gradually increased, and in 1957 planning began to expand the church facilities. Plans were made for a new sanctuary, chapel, and space for Sunday school and choir rehearsal. The original Gamble plans were not completed (Louis S. Gamble had died but the architectural firm was still designing churches.) The congregation hired Frick & Frick Architects to design and addition. The foundations for the extensions were laid in January 1959, and in May the cornerstones of the church's two previous buildings were laid along the foundation of the new sanctuary. In September the sanctuary was formally dedicated during Sunday service with over five hundred congregants in attendance. The original sanctuary was converted to use as a social hall. By this time, the congregation had 325 members. The Keims continued to serve the congregation until 1969. [11]

The Pomona Church of the Brethren underwent many changes following the completion of construction. In 1975, the Pomona School District began leasing space in the church for a childcare center. The parsonage to the southeast of the church (which the church had owned for some time but which became a parsonage in 1973) underwent many minor renovations such as reroofing or plumbing installations, as important congregants, esteemed visitors, and even community members used them for temporary living over the subsequent decades. In 1978, a garage unit was built on the church parcel for usage by the church and the private parsonage. In 1980, the Fellowship Church, a Church of the Brethren congregation that had separated from the La Verne church, approached the Pomona Church of the Brethren with the proposal to merge the two congregations. The Fellowship Church had lost most of its ministers and its congregation size had shrunk. The Pomona congregation, also facing dwindling membership and outsized by their facilities, agreed to the mutually beneficial merger. In 1981, the newly formed joint congregation adopted the name of the Pomona Fellowship Church of the Brethren and used the funds from selling the Fellowship Church's property for an Endowment Fund intended for community outreach. The congregation has remained a vital part of the Church of the Brethren denomination and community. In 1997, the church exterior was repainted, as well as the interior spaces like the kitchen and nursery. The Eden Evangelical Church, a Korean ministry, moved into the church facilities in the late 1990s and remain tenants in 2019. With declining youth membership, the church sponsored annual summer camps for neighborhood children as a part of outreach ministry.

Architects and Builders

Louis S. Gamble's architectural design business was based in Pasadena, California before relocating to Long Beach in the 1940s. Louis Samuel Gamble was born in Iowa in 1894 and raised on a farm. He had left school by the age of 16, married Mabel Bell in 1915, and the couple soon had a daughter. Despite partial loss of hearing and sight, he managed a general store in his early twenties and then worked in a lumber yard. The Gamble family relocated to Pasadena, California in the early 1920s, and Louis began working as a building contractor.

[9] Gallivan, *Early Pomona*, 105, 108; Gladdys Esther Muir, *Settlement of the Brethren on the Pacific slope: a study in colonization* (Elgin, IL: Brethren Publishing House, 1939), 253.

[10] Pomona Fellowship Church of the Brethren, *100th Anniversary 1907-2007 of the Pomona Fellowship Church of the Brethren*, March 18, 2007; Los Angeles County Recorder's Office, "Grant Deed, APN: 8358-009-006," County of Los Angeles, State of California, recorded July 27, 1989; Los Angeles County Recorder's Office, "Grant of Easement 3975," County of Los Angeles, State of California, recorded April 24, 1959.

[11] Pomona Progress Bulletin, "College presidents waited to speak," Jan 10 1953; Pomona Fellowship Church of the Brethren, *100th Anniversary 1907-2007 of the Pomona Fellowship Church of the Brethren*, March 18, 2007

In the 1930s, he was president of Parker & Gamble, a firm that focused on residential construction. There is no indication that Gamble formally studied architecture, and apparently learned building design on the job. By the early 1940s, Louis S. Gamble and Associates was based in Long Beach and advertised a specialty in building design. The firm began to focus on designing churches throughout Southern California from in the late 1940s and continued into the 1960s. Church projects include the Alhambra First Baptist Church (1948), and the First Assembly of God Church (1950) in Long Beach. In 1949, they designed Ontario First Methodist Church, Hanford Church of the Nazarene, and a church in Van Nuys in addition to Pomona Church of the Brethren. The firm also continued designed residential buildings in Pasadena and Arcadia. Louis S. Gamble and Associates designed the Salt Lake City First Baptist Church (1951), which is a contributor to the NRHP Salt Lake City East Side Historic District, but none of the firm's California designs appear to have been recognized for architectural significance. Louis Gamble died in 1952, and the firm continued to work on church designs.[12]

Frick & Frick Architects was a Pasadena-based firm organized by twin brothers Arthur and Edward Frick in 1946. The Fricks were both born in Hollywood before permanently relocating to Pasadena. They attended Pasadena High School before earning bachelors' and masters' degrees in architecture from University of California, Berkeley. During World War II, Edward Frick was assigned to the Air Force as an analyst while Arthur served in the Navy, eventually rising to the rank of Commander in the Reserve. In their architectural careers, they contributed to designing numerous school, religious, civic, and commercial buildings including the Linda Vista fire station, Pasadena's First Nazarene church, and five buildings for Pasadena College. In the late 1950s and early 1960s, the Fricks took on additional partners, eventually becoming Frick, Frick, Tipton & Jette. In 1966, the firm won Southern California Edison Company's "Award of Excellence" for designing their new headquarters in Arcadia. The building was innovative for its complete electrification and 10,000 square feet of executive suites and lounge areas, as well as the decorative white terra cotta panels framing bronze, glare-reducing glass windows along the exterior.[13]

The Edwards Construction Company was a local building firm from Pomona organized by Gerald Edwards in the early 1950s. In that time, Edwards had served as president and state director of the Building Industry Association. Edwards Construction had been charged with many large-scale commercial building projects throughout the greater Los Angeles area, including the 11, 800 square-foot Chino Valley Bank and the 29,100 square-foot Westlake Plaza and Professional Building.[14]

Previous Evaluation

In 2004, a DPR 523 form documenting property was produced pursuant to Section 106 compliance for a telecommunications project. Although Christopher J. Hetzel, who prepared the form, is not on the CHRIS consultants list and no information about his qualifications could be obtained, he appears to have regularly worked in the Los Angeles area as an architectural historian. This study's methodology is typical in many respects of compliance-driven historical evaluations but does not follow the standards set forth by California OHP's "Instructions for Recording Historical Resources" and would be unlikely to stand up to professional peer review.

The consultant researched the construction history of subject property, but did not discover information about its original architect. The preparer did not review the circa 1950 rendering produced by the original architect which showed the original planned design of the building. His assertion that an engineer designed a building appears to be an error or incomplete statement, and though he names that individual he does not provide any information about his career. He identified the building's architectural style as "Modern English Gothic Revival," a term that is not found in architectural history texts or commonly used by California architectural history practitioners. He may have intended to communicate the idea that the building exhibits a combination of Modernism and Gothic Revival architectural features, but the does not explain or expand upon this architectural classification. He does not refer to texts or websites that define the style or cite other built examples. In his extremely brief evaluation section, he does not distinguish between the Modernist 1959 volume and the much more traditional architecture of the original, asserting that the entire property is characterized by "modernistic application

[12] World War I Registration Card, Louis S. Gamble, June 5, 1917; US Census Records, Cedar, Iowa, 1920; US Census Records, Pasadena, California, 1930, 1940; "Congratulations to the Winbigler Mortuary," Santa Ana Register, June 13, 1942, 5; "First Baptist Church to Break Ground Today," San Bernardino County Sun, October 24, 1948; "Methodists to Construct New Ontario Church," San Bernardino County Sun, July 23, 1949; "Cornerstone Placed, Assembly Celebrates," Long Beach Independent, September 16, 1950; "Room to Live – 316 W. Norman, Arcadia," Los Angeles Times, October 1, 1950, 59; "Pasadena Estate," Los Angeles Times, March 3, 1948, 15; "Nazarene Church Makes Plans for New Edifice," Hanford Morning Journal, March 8, 1949; NRHP Nomination, Salt Lake City East Side Historic District (Boundary Increase), prepared by Korral Broschinsky, Preservation Documentation Resource, September 19, 2002.

[13] "15 Years: Architects Note Birthday," Independent Star News (Pasadena, California), March 26, 1961, 14; "Arcadia Architects Win Building Design Award," Independent Star News, September 4, 1966, 9;

[14] "Lions Club to Install New Chief," Progress Bulletin (Pomona, California), June 9, 1977, 8; "Chino Valley bank opens new building," Chino Champions, October 19, 1977, 9;

of the English Gothic revival style." He does not outline the features that marked the building as a significant example of this style. He asserts that because the building is one of only a few mid-century examples of this specific style in the neighborhood it is architecturally significant. He does not provide a list of character defining features.

No historic context of the region or city is provided, nor was any history of the denomination or congregation undertaken. Evaluations under the criteria for historical significance are conclusory statements unsupported by historical facts and fail to meet professional standards. Although the study was performed pursuant to Section 106, the property has not been added to the Built Environment Resources Directory (BERD), indicating that the study may not have received concurrence from OHP. For these reasons, this study reevaluates the property rather than merely updating the previous study.

Evaluation:
The NRHP and California Register of Historical Resources (CRHR) require that a significance criterion from A-D or 1-4 (respectively) be met for a resource to be eligible. The City of Pomona has ten criteria for local listing; 1-3 are based on NRHP criteria A-C.

Criterion A/1: The Pomona Fellowship Church of the Brethren is not associated with events that have made a significant contribution to the broad patterns of our history. Originally constructed on the subject property in 1949 and expanded in 1959, the church is generally associated with the mid-century population growth of Pomona and concurrent expansion of civic institutions. Pomona has roughly a dozen properties that are listed on the NRHP, a similar number on a list of local landmarks, and about 1800 resources (including historic district contributors) listed on the BERD. Almost all of the buildings listed or determined eligible were constructed prior to 1945. Most postwar properties in Pomona that have been the subject of evaluation have been found ineligible, although about a dozen houses constructed in the postwar era are district contributors according to the BERD. Postwar institutional properties that have been listed or otherwise recognized are limited to the 1969 Civic Center Plaza, which is significant for its architecture. Pomona's most important postwar historic contexts are the construction of the 10 freeway, the associated transformation of the region by the personal automobile, and demographic change in what had been a majority-white agricultural community prior to World War II. Research has not revealed any previously identified resources associated with these themes. Nor has research revealed that the church is significant within any of these contexts. The congregation had its roots in early-twentieth century Pomona and appears to have continued to draw its members primarily from the local white population after the demographics of the community changed. Therefore, the property is not significantly associated with these or any other historic contexts and is recommended not eligible to the NRHP, CRHR, or local listing under Criterion A/1.

Criterion B/2: The Pomona Fellowship Church of the Brethren is not associated with the life of a person important to our history. The early leaders of the congregation were prominent within that milieu, but research has not indicated any lasting impact on local history or on the history of the Church of the Brethren as a denomination. Therefore, the property is recommended not eligible to the NRHP, CRHR, or local listing under Criterion B/2.

Criterion C/3: The Pomona Fellowship Church of the Brethren is not significant for its architecture. The original design by Louis S. Gamble and Associates was a traditional church building that incorporated the features (kitchen, classrooms) a mid-century congregation required for its varied activities. Using modest materials like stucco and wood trim, and incorporating only small areas of stained glass, it lacked the colossal proportions and lavish materials often utilized to create the statement buildings favored by wealthy religious organizations. The original design, however, was harmonious and carefully-proportioned. It evoked English architecture with its use of rustic Tudor-style details including half-timbering and other wood trim, stained glass windows in pointed-arch openings on the main façade, and leaded-glass windows with small panes flanking the entrance. The Gamble design's west wing, however, was not constructed in 1949, so the original church as-built had an unbalanced appearance, with its decorative entry near the east end of the building rather than centered as in the original plan. The 1957-1959 expansion disrupted the original design. Although the new Frick & Frick sanctuary was in the original location chosen for the west wing, it was taller, larger, sited closer to the street, and tied in clumsily with the east wing. Out of scale with the balance original design, the 1959 sanctuary appears to have been designed without reference to the existing building. It projects a utilitarian form of Modernism at odds with the more traditional idiom of the original building, failing to incorporate features like pointed-arch windows or a flared roof and using yellow brick rather than the red of the original building. These choices mean that the new and original wings have an ad hoc quality and do not read as a single building. Nor is the 1959 sanctuary architecturally significant in its own right. Although overtly Modern with its pebbled-glass colored windows at the side and nearly invisible main-façade windows, it is a timid expression of the style lacking the bold roof forms, avoidance of ornament, and expressed structure found in architecturally significant Modernist churches. For these reasons, the property is recommended not eligible to the NRHP, CRHR, or local listing under Criterion C/3.

Criterion D/4: In rare instances, buildings themselves can serve as sources of important information about historic construction materials or technologies and be significant under Criterion D/4. The church is a common and well-understood type of building and does not appear to be a principal source of important information in this regard.

City of Pomona Historic Landmark Designation Criteria

An improvement, natural feature, or site may be designated an Historic Landmark by the Historic Preservation Commission and City Council and any area within the City of Pomona may be designated an Historic District pursuant to Subsection E of this Section, if the building or majority of buildings (in a district) are fifty (50) or more years old or of exceptional quality if less than fifty (50) years old, and it meets one or more of the following criteria:

1. It exemplifies or reflects special elements of the City of Pomona's cultural, social, economic, political, aesthetic, engineering, architectural, or natural history;

The Pomona Fellowship Church of the Brethren does not exemplify or reflect special elements of local history. Although the church building is generally associated with local population growth in the postwar period (as discussed under Criterion A/1 above) extensive research has not revealed exemplification of any "special elements" of Pomona's social or cultural history. It was one of many local churches, and review of the historical record has not revealed that it was more important than other local churches, or that it produced any lasting impact on local history. Likewise, its architectural and aesthetic features are quotidian rather than special (as discussed at length under Criterion C/3 above); its primary development took place in 1949 with a major addition in 1959. Designed by different architects who utilized different styles, the two phases of development are combined in a building with a rambling, unbalanced plan and an ad hoc, unplanned appearance. The building is a common property type and therefore does not reflect special elements of engineering history. The entire parcel is developed with buildings and parking lots with very small areas near the parcel boundaries devoted to landscaping, therefore there is no apparent potential for research into special elements of natural history. Research has not revealed any association with local economic or political history. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 1.

2. It is identified with persons or events significant in local, state, or national history;

As discussed above under Criterion A/1 and B/2, research has revealed no important associations with events significant to local, state, or national history. Research into the biographies of the pastors and church leaders has not revealed any important association with persons or events significant and local, state, or national history. The people associated with the church may have been locally prominent during their lifetimes, but did not make a lasting impact on the denomination, on local history, on their professions, or on other historical contexts. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 2.

3. It embodies distinctive characteristics of a style, type, period, or method of construction, or is a valuable example of the use of indigenous materials or craftsmanship;

As discussed above under Criterion C/3, the Pomona Fellowship Church of the Brethren does not embody distinctive characteristics of a style, type, period, or method of construction. The original 1949 church building was a modest late example of a well-proportioned traditional religious building. It utilized decorative aspects of Tudor-style architecture, a period revival style popular in the US between 1890 and about 1940. The clumsy siting of the Modernist addition disrupted the harmony and balance of the original and did not reference its decorative details. Nor is the 1959 addition in its own right a distinctive example of Modernist architecture (as discussed above). Both the original and the addition are wood-frame construction with stucco cladding, a common method of construction in the late 1940s and 1950s as well as in 2020 and in the intervening decades. The building is not a valuable example of the use of indigenous materials; during the postwar period building materials were typically mass-produced and purchased, and the physical details of this building do not indicate the use of any indigenous materials. The original church was constructed by volunteer labor, and the addition by a general contractor; these were both common types of labor used in church construction of the era. Neither the original nor the addition exhibits any distinctive or valuable examples of craftsmanship. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 3.

4. It contributes to the significance of an historic area, being a geographically definable area possessing a concentration of historic or scenic properties or thematically related grouping of properties which contribute to each other and are unified aesthetically by plan or physical development;

The Pomona Fellowship Church of the Brethren is not part of or adjacent to an existing historic district. A neighborhood architectural survey to definitively assess eligibility of the neighborhood as a historic district is outside the scope of the current project, therefore it is

unknown whether a potential historic district exists. The adjacent parsonage, which predates the 1949 original church building, exhibits Tudor-style architecture that is similar to the church, but two buildings cannot constitute a concentration of historic properties or a thematically related grouping of properties. Furthermore, neither building is architecturally or historically significant, so if they were part of a larger grouping of related properties, they would still not be eligible as contributors to a potential historic district. Historic aerial images and contemporary street photographs reveal that the immediate neighborhood around the church was developed between the 1920s and the 1990s. The church is the only institutional property in the immediate vicinity, which is otherwise residential. The modest-sized single-family houses that characterize the neighborhood exhibit a variety of plans, materials, and architectural styles. Limited research has not revealed any indication that they are thematically related or that they contribute to each other or are unified aesthetically by plan or physical development. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 4.

5. It is the work of a notable building, designer, landscape designer, or architect;

As discussed above under Criterion C/3, the Pomona Fellowship Church of the Brethren was originally designed by Louis S. Gamble and Associates in 1949. The firm specialized in church design, and several of their church commissions were completed in Southern California between the late 1940s and the 1960s. Research did not reveal any awards or other professional accolades from the period Gamble and Associates was active, and the firm's work has not been recognized as eligible for historic listing in Pomona or other nearby cities. Furthermore, the original design was disrupted by the 1959 addition, and the building in its current form cannot be wholly attributed to Gamble and Associates. Frick & Frick Architects, the firm responsible for the addition, has not been recognized as a notable local architectural firm. The property features very little landscaping, and research revealed no contributions to the site by a landscape designer. The Edwards Construction Company, which constructed the addition, built many projects in the region but does not appear to have been notable for the quality of its work. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 5.

6. It has a unique location or singular physical characteristics or is a view or vista representing an established and familiar visual feature of a neighborhood, community, or the City of Pomona;

Every building is sited in a "unique" location in the sense that no two parcels can be exactly alike. However, W. Orange Grove Ave. is an ordinary street in Pomona with no notable features that distinguish it from other residential streets, and the Pomona Fellowship Church of the Brethren parcel has no special qualities that distinguish it from neighboring parcels. Therefore, the property lacks the type of unique location that would render it eligible for historic listing. Although the church building is certainly visible from neighboring parcels in its residential neighborhood, it cannot be characterized as offering a view or vista. Nor does it represent such an established and familiar visual feature of the neighborhood, community, or city that it would qualify for historic listing. (Nearly every property is visible from its near neighbors and from the public right-of-way on the street where it is sited.) The church is not located on an important public thoroughfare for other highly visible location such as downtown Pomona. Although it has been a feature of its neighborhood in an approximation of its current form for roughly 60 years, it lacks the singular physical characteristics that would render it eligible for historic listing. A property would need to be more than ordinary to meet this criterion: attractive and harmonious architecture, picturesque vernacular building features, or a formerly common but now rare property type are examples of characteristics that might render a property eligible under this criterion, but are lacking for the Pomona Fellowship Church of the Brethren. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 6.

7. It embodies elements of architectural design, detail, materials, or craftsmanship that represent a significant structural or architectural achievement or innovation;

As discussed above under Criterion C/3 as well as under local Criteria 1, 3, and 5; the Pomona Fellowship Church of the Brethren does not embody elements of architectural design, detail, materials, or craftsmanship that represent a significant structural or architectural achievement or innovation. It is an example of a common style and has been altered over time, and therefore is not a strong example of high-quality architectural design. Its wood frame construction, stucco cladding, and decorative detail as well as its craftsmanship are ordinary for their era and do not represent a significant achievement in the realm of architecture or engineering. Nor is there anything innovative about the building's design or structural qualities. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 7.

8. It is similar to other distinctive properties, sites, areas, or objects based on an historic, cultural, or architectural motif;

The Pomona Fellowship Church of the Brethren does not exhibit similarity to any other known distinctive historic properties. Since it was developed by different architects over a period of time, it is not a strong example of any style and does not resemble other historic-era buildings in Pomona. There are no known local examples of historic churches from the postwar era. Research has revealed no important historical, cultural, or architectural motif that would render the property eligible for historical listing. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 8.

9. It reflects significant geographical patterns, including those associated with different eras of settlement and growth, particular transportation modes, or distinctive examples of park or community planning;

The Pomona Fellowship Church of the Brethren is not associated with significant geographical patterns associated with Pomona's eras of settlement and growth. The neighborhood was utilized for citrus groves through the middle of the twentieth century, but nothing remains of this geographical pattern associated with Pomona's agricultural past. The church building is an outlier in a mostly residential neighborhood that was developed gradually between the 1920s and 1990s, and is therefore not associated with the primary geographical pattern of the neighborhood. The neighborhood is not strongly associated with any particular era of residential development since it was developed gradually over many decades. The property is generally associated with automobile transportation, since it is sited on a public street, but nearly every parcel has street access; this common element of development is not sufficient to render the property eligible for historic listing for association with automobile transportation. The property is a church and therefore not a distinctive example of park planning. Research has not revealed any association with a distinctive example of community planning. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 9.

10. It is one of the few remaining examples in the City of Pomona, region, state, or nation possessing distinguishing characteristics of an architectural or historical type or specimen.

As discussed above under Criterion C/3 as well as under local Criteria 1, 3, 5, and 7; the Pomona Fellowship Church of the Brethren is a common type of building (wood frame with stucco cladding) locally, regionally, throughout California, and nationwide. Originally an example of a common architectural style, it has also been altered over time and does not possess distinguishing characteristics of an architectural or historical type or specimen. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 10.

The property is not recommended to qualify for listing on the NRHP, CRHR, or local listing and does not qualify a historic resource under CEQA.

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # _____
HRI # _____
Trinomial _____
NRHP Status Code _____
Other Listings _____
Review Code _____ **Reviewer** _____ **Date** _____

 ***Resource Name or #** (Assigned by recorder) 861 W. Orange Grove Ave.

P1. Other Identifier: 861 W. Orange Grove Ave.
***P2. Location:** ☐ **Not for Publication** ☒ **Unrestricted** ***a. County** Los Angeles
and (P2b and P2c or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad** San Dimas **Date** 1981 **T** 1S ; **R** 8W ; Non-sectioned ; **S.B.B.M.**
c. Address 861 W. Orange Grove Ave. City Pomona Zip 91768
d. UTM: (give more than one for large and/or linear resources) Zone 11 ; 429283.16 mE/ 3769921.20 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate)

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

The rectangular-plan Tudor-style house is single story with a steeply pitched cross-gabled roof and narrow eaves with exposed rafter tails. The yard is landscaped with mature trees and lawn. The house is clad in stucco, and fenestration consists of multiple-light casement and fixed windows in rectangular openings. Its asymmetrical main façade is on the south, and features steeply-pitched projecting gables of different sizes. There is a large picture window under the east gable and a bay window with its own diminutive roof under the west gable. Its main entrance is in the east gable, and faces west. There is a secondary entrance in the adjacent recessed volume that is fitted with casement French doors. A set of concrete steps leads to a raised concrete platform adjacent to these entryways, which is enclosed in a low brick wall. An entrance on the west (side) elevation is also accessed by a set of concrete steps.

***P3b. Resource Attributes:** (List attributes and codes) HP10. Residence

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

P5b. Description of Photo: (View, date, accession #) Photograph 1: South elevation, camera facing northwest, photograph taken July 8, 2019.

***P6. Date Constructed/Age and Sources:**
☒ Historic ☐ Prehistoric ☐ Both
1922, Pomona City Directory

***P7. Owner and Address:**
Pomona Fellowship Church of the Brethren
875 W. Orange Grove Avenue
Pomona, CA 91768

***P8. Recorded by:** (Name, affiliation, address)
Kara Brunzell, Dylan Williams
BCR Consulting LLC.
585 W. Eighth Street,
Claremont, CA 91784

***P9. Date Recorded:** July 8, 2019

***P10. Survey Type:** (Describe) Intensive

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") None

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

***Resource Name or #** (Assigned by recorder) 861 W. Orange Grove Ave.

B1. Historic Name: N/A
B2. Common Name: N/A
B3. Original Use: Residential B4. Present Use: Vacant
***B5. Architectural Style:**
***B6. Construction History:** (Construction date, alteration, and date of alterations) 1922, Original construction of residence
1932, Construction of detached garage (now converted to a single bedroom residential unit)
1954, Addition of bedroom at northeast corner of building

***B7. Moved?** ☒ **No** ☐ **Yes** ☐ **Unknown** **Date:** _____ **Original Location:** _____
***B8. Related Features:** _____
B9. Architect: b. Builder: "Day work"
***B10. Significance: Theme** N/A **Area** N/A
Period of Significance N/A **Property Type** N/A **Applicable Criteria** N/A
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)
B11. Additional Resource Attributes: (List attributes and codes)
***B12. References:**
(See Footnotes)
B13. Remarks:

***B14. Evaluator:** Kara Brunzell

***Date of Evaluation:** July 9, 2019

(This space reserved for official comments.)

***P3a. Description: (continued):**

Photograph 2: Walkway and entrance to the residence, south elevation and part of west elevation, camera facing northeast, July 8, 2019.

Photograph 3: Side entrance to the residence and cement walkway leading to adjacent residence, west elevation, camera facing northeast, July 8, 2019.

B10. Significance (continued):

Historic Context of Pomona

Prehistoric, Spanish, and Mexican Periods

The Gabrielino-Tongva people occupied the Pomona area with its abundant natural resources prior to the arrival of Spanish missionaries in 1769. Mexican independence from Spain in 1834 led to secularization of the missions and distribution of mission lands into large landowners. Ygnacio Palomares and Ricardo Vejar were sons of Spanish loyalists and explorers who managed cattle and horses at Rancho de las Aguas. In 1837, Mexican Governor Juan Bautista Alvarado granted 22,430 acres of former Mission San Gabriel grazing lands to Palomares and Vejar, who named the territory Rancho San Jose. The land was split between the two men, with present-day Pomona lying within both Palomares' northern half, Rancho San Jose de Arriba, and Vejar's southern half, Rancho San Jose de Abajo. As California transitioned to American statehood following the Mexican-American War in 1850, the region began a process of dynamic changes. The development of two roads running from San Bernardino through the rancho, one directed west toward Los Angeles and another south toward Temecula, previewed Pomona's future as a commercial hub.[1]

American Foundations in Pomona

Ricardo Vejar settled a $28,000 debt to speculator Isaac Schlesinger by deeding him San Jose de Abajo. After controversy over his right to ownership, Schlesinger sold the property to successful and experienced rancher Louis Phillips in 1866. Phillips established a mansion on the land and improved oversight over ranching operations. Phillips' most impactful contribution to Pomona's history was when he ultimately sold nearly three thousand to the Pomona Land and Water Company (PLWC) in 1882. The company was organized in 1882 to harness water and to facilitate sale of land to prospective Pomona residents. Booming land speculation and organized residential settlements led to the formal incorporation of Pomona (named after the Roman goddess of fruitful abundance) in 1888.[2]

Arrival of the railroads in the 1880s facilitated the emigration of newcomers to Pomona and stimulated growth in the emerging citrus industry. In the 1870s and 1880s that vast acreages of citrus groves were being cultivated by Pomona settlers. The Pomona citrus industry's place along two major railroad lines at the heart of Southern California's broader citrus-growing empire made the town an opportune and alluring settlement during western American expansion through the turn of the twentieth century. By 1890, the city reported 3,634 people living within its limits. By 1911, Pomona had become a charter City.[3]

Mid-Century Expansion

Internal development and modernization characterized mid-twentieth century Pomona's growth as an American city. Despite being an overwhelmingly white population, the twentieth century saw an influx of African Americans, Chinese, and, most notably, Japanese and Latino laborers. While Japanese immigrants were the largest minority group in Pomona until the 1920s, state legislation restricted their numbers in subsequent years so that Latinos the predominant demographic of citrus industry workers. Flooding concerns necessitated the 1924 construction of Puddingstone Dam northwest of Pomona, simultaneously creating a 250-acre lake for the region's recreational usage. The Fox Theater in downtown Pomona opened in 1931 as a premier cinematic venue. The 1950s and 1960s saw the construction of the 10 Freeway through Pomona with the rise of the personal automobile, construction of new civil service buildings in and around the downtown area, and the emergence of shopping centers and malls. Special interest groups and social welfare organizations arose for purposes ranging from women's social clubs to childcare for the physically handicapped.[4]

The city of Pomona and the surrounding towns founded upon rich agriculture saw the continued success of local citrus production translate into a multibillion-dollar industry by the late 1930s. The agricultural character Pomona was capitalized upon with the inauguration of the Los Angeles County Fair, and the inaugural fair opened in October 1922 to nearly 50,000 residents and visitors.

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[1] William F. King, *Pomona: the Citrus Empire* (Carlsbad: Heritage Media Corp., 2001), 11-13, 20-21, 23;"History of Pomona," City of Pomona, accessed 27 June 2019, https://www.ci.pomona.ca.us/index.php/about/about-pomona.; *Pomona Valley Community Book*, ed. Roy L. Driscoll (Pomona: Arthur H. Cawston, 1950), 10-11, 15.; Mickey Gallivan and the Historical Society of Pomona Valley, *Early Pomona* (Charleston: Arcadia Publishing, 2007), 7-8; Frank Parkhurst Brackett, *History of Pomona Valley, California, with biographical sketches of the leading men and women of the valley who have been identified with its growth and development from the early days to the present* (Los Angeles: Historic Record Company, 1920), 34-38, 50-51.

[2] Gallivan, *Early Pomona*, 8.; *Pomona Valley Community Book*, 33-34, 43.; Norton B. Stern, "Louis Phillips of the Pomona Valley: Rancher and Real Estate Investor," Southern California Quarterly 65, no. 2 (Summer 1983): 171-173, 181.; F.L. Palmer, *Pomona, Illustrated and Described* (Pomona: Pomona Land and Water Co., 1885), 15, 19.

[3] Stern, "Louis Phillips of the Pomona Valley," 178.; "History of Pomona," City of Pomona, accessed 27 June 2019.; King, *Pomona: the Citrus Empire*, 40-41, 58-59.; *Pomona Valley Community Book*, 72-74, 85-91.; United States Bureau of the Census, *Report on the Population of the United States 1890*, (Washington, D.C.: Government Printing Office, 1864), 71.

[4] King, *Pomona: the Citrus Empire*, 80, 88.; *Pomona Valley Community Book*, 81.; Gallivan, *Early Pomona*, 10.;.

Pomona solicited volunteer services to aid defense preparation during World War II, and one in every ten residents received some form of defense training. Over 3,000 men between ages twenty-one and thirty-six registered for the draft from Pomona and neighboring cities. The Los Angeles County Fairgrounds was appropriated for use as a Japanese detention center during the war, then as an army training center. After the war, Pomona saw increased commercial, civic, and infrastructural development as the economy shifted away from agricultural dominance to consumer culture. Returning war veterans, continued immigration to California, rising land values from commercial development, and construction of new residences changed the landscape of the city. Like other former agricultural hubs in Southern California Pomona grew into a bedroom community after World War II. Its population expanded from 13,505 residents in 1920 to 67,157 residents in 1960. [5]

Pomona Today

In recent decades, Pomona's evolution into a modern-day city was driven by expansive development and further diversification. City residences and business began to spread toward the north and east, toward neighboring La Verne and Claremont. Construction of the Route 60 Freeway, colloquially known as the "Pomona Freeway," cut through the southern part of the city, offering new routes of transportation to the east and west and, consequentially, new business opportunities along the route. Major institutions such as Cal Poly Pomona and Pomona Valley Hospital Medical Center also saw significant improvements paralleling the city's own growth. These expanded institutions were necessitated by the large influx of residents from Los Angeles and its surrounding areas of high population to suburb cities like Pomona beginning in the 1960s. Conditions for racial minorities living in the area, specifically Latinos and African Americans, have changed drastically. In the latter half of the century, Latino communities once accustomed to abundant working opportunities and decent wages in citrus production saw the market's decline and experienced a transition to the less lucrative industrial labor force. Meanwhile, the Latino population became the majority demographic after 1960, and many Latinos have held political positions of prominence. Social welfare groups like the Pomona chapter of the Urban League also worked to provide food, shelter, and civil rights activist support to improve living conditions for African Americans in the city. Today, Pomona is the diverse home to over 151,000 residents, making up the seventh largest city in Los Angeles County. [6]

Property Under the Ownership of the Alkire Family

In 1890, Josiah Alkire purchased thirteen acres of land formerly held by the Palomares family from George Rhorer for $13,000 and resided there with his wife and sons. Alkire had been a prosperous grocer from St. Louis before arriving and purchasing land in the west. According to newspaper reports on the sale, the property in Pomona was lush with fruit-bearing orange groves. Collaborating with the neighboring Phelan family in 1895, the Alkires applied for a right of way to establish a water tunnel through their respective properties to provide water in the area. The tunnel tapped into several subterranean streams originating in the foothills and provided irrigation for numerous estates in the western and southwestern portions of Pomona Valley, including the subject property.[7]

Private Residences and the Pomona Fellowship Church of the Brethren

The house appears to have originally been constructed about 1922 for the Copeland family. The neighborhood was during that period on the outskirts of Pomona, with widely-spaced residences surrounded by citrus orchards. Belle (1863-1946) and Thomas B. Copeland (1856-1928) were Iowa residents who relocated to Pomona in about 1899, when their son Ross was ten. The family moved to Los Angeles and Thomas worked at various jobs until the couple moved back to Pomona in the early 1920s. By 1922, Belle and Thomas Copeland lived at 1021 West Orange Avenue, a few years later the address had changed to 891 West Orange Grove Avenue. Thomas Copeland died in 1928, and Belle moved to a nearby house. By 1931 L. (Lewis) Clair and Elyse M. Hammond had moved into 891 West Orange Grove Avenue. L. Clair Hammond was born in New York in 1892. The Hammonds appear to have constructed the small house next door as a garage in

[5] Matt Garcia, *A World of its Own: Race, Labor, and Citrus in the Making of Greater Los Angeles, 1900-1970* (Chapel Hill: University of North Carolina Press, 2001), 23.; "Our History," Pomona Fairplex, accessed 27 June 2019, https://fairplex.com/aboutus/our-history; *Pomona Valley Community Book*, 184-186.; King, *Pomona: the Citrus Empire*, 96-97; United States Bureau of the Census, *Census of Population: 1960*, (Washington, D.C.: Government Printing Office, 1864), 19.

[6] King, *Pomona: the Citrus Empire*, 104-105.; "Heritage – a Brief History," Cal Poly Pomona, accessed 1 July 2019, https://www.cpp.edu/~aboutcpp/heritage/index.shtml.; "History of PVHMC," Pomona Valley Hospital Medical Center, accessed 1 July 2019, https://www.pvhmc.org/About-Us/Our-History.aspx., Garcia, *A World of Its Own*, 225-226.

[7] "Horticultural Notes," *Los Angeles Times*, April 18, 1890, 7; "Pomona – Progress of the Great Alkire-Phelan Tunnel," Los Angeles Times, July 3, 1894, 9; "Pomona Valley Brevities," Los Angeles Times, January 1, 1896, 20.

1932. As an adult he lived in California and worked as an appliance salesman. Elyse M. Hammond was born in Iowa and worked as a real estate broker. The couple lived in the house for only a few years before returning to Los Angeles.[8]

By 1940, orange rancher Edwin T. Wells and his wife Dorothy owned and lived in the house. The elder Wells's were in their late 40s, and their son James was in his mid-teens. The family had lived in Pasadena before coming to Pomona to grow oranges, and by 1949 had returned to Pasadena after selling the house to the Church of the Brethren.[9]

In 1949, the Pomona Fellowship Church of the Brethren (then called the Pomona Church of the Brethren) purchased nine acres of land along Orange Grove Avenue for the purpose of building a new church building on roughly three acres and subdividing the rest. This development implies that the subject property was included in the properties titled to the Pomona Church of the Brethren, with the existent residential units becoming a parsonage of the church. In the years since, the parsonages have served as interim residences for church congregants and community tenants. Accordingly, the building was altered as needed to accommodate more residents. The address of the house was changed again to 861 W. Orange Grove Avenue at an unknown date. In 1954, a 10'x12' bedroom was added to the rear of the subject residence. Additionally, the detached garage was converted into a single bedroom dwelling. In 1978, a detached garage unit was built behind the parsonages on the property shared by the church building with the intended usage by both the church and the private residences. Reverend Kurtis Naylor and his wife Gladys lived on the property in the mid-1970s. In 1980 and 1981, the church sponsored Vietnamese families by allowing them to stay in the parsonage for several months. Today the residence remains in use between church clergy and the Pomona community.[10]

Evaluation:
The NRHP and California Register of Historical Resources (CRHR) require that a significance criterion from A-D or 1-4 (respectively) be met for a resource to be eligible.

Criterion A/1: The house is not associated with events that have made a significant contribution to the broad patterns of our history. It was constructed as a residence during the 1920s, an era when the neighborhood was still primarily devoted to citrus production. Research has revealed no significant association between the house and any important historic context. Therefore, the property is recommended not eligible to the NRHP or CRHR under Criterion A/1.

Criterion B/2: The early owners and residents of the house were not important to Pomona history. Likewise, the pastors who lived there after the church purchased the property were not important to local history or to the history of the denomination. Therefore, it is not recommended eligible to the NRHP or CRHR under Criterion B/2.

Criterion C/3: The house is a modest example of a Tudor-style residential building, a popular architectural style for small houses during the 1920s. Although it exhibits several features of the style including steeply-pitched cross-gabled roof and multiple-light windows meant to evoke English cottages, it lacks architectural distinction. Landmark examples of Tudor-style architecture typically feature decorative half-timbering and other woodwork, leaded glass windows, and complex decorative brickwork patterns. None of these features are present on the house, which appears to have been constructed without assistance from an architect. For these reasons, the property is recommended not eligible to the NRHP and CRHR under Criterion C/3.

Criterion D/4: In rare instances, buildings themselves can serve as sources of important information about historic construction materials or technologies and be significant under Criterion D/4. The house is a common and well-understood building type and therefore does not appear to be a principal source of important information in this regard.

City of Pomona Historic Landmark Designation Criteria
An improvement, natural feature, or site may be designated an Historic Landmark by the Historic Preservation Commission and City Council and any area within the City of Pomona may be designated an Historic District pursuant to Subsection E of this Section, if the

[8] US Census Records, Los Angeles, 1900, 1910, 1920; Find A Grave, Thomas B. Copeland, https://www.findagrave.com/memorial/167749232, accessed July 22, 2019; Pomona City Directory, 1922, 1928, 1931, "1940 United Sates Federal Census", Sixteenth Census of the United States.

[9] Pomona City Directory, 1940, US Census Records, Los Angeles, 1940; Pasadena City Directory, 1932, 1949.

[10] Pomona Fellowship Church of the Brethren, *100th Anniversary 1907-2007 of the Pomona Fellowship Church of the Brethren*, March 18, 2007; Los Angeles County Property Assessor, "Property Characteristics and Values, APN: 8358-009-009," County of Los Angeles Assessor's Office, accessed 9 July 2019; Gallivan, *Early Pomona*, 105; Los Angeles County Recorder's Office, "Grant Deed, APN: 8358-009-009," County of Los Angeles, State of California, recorded July 27, 1989; Department of Community Development, "Application for Building Permit – 875 W. Orange Grove [Avenue]," City of Pomona, August 8, 1978.

building or majority of buildings (in a district) are fifty (50) or more years old or of exceptional quality if less than fifty (50) years old, and it meets one or more of the following criteria:

1. It exemplifies or reflects special elements of the City of Pomona's cultural, social, economic, political, aesthetic, engineering, architectural, or natural history;

The house at 861 W. Orange Grove Ave does not exemplify or reflect special elements of local history. Although the original construction of the residence is generally associated with citrus cultivation in the 1920s (as discussed under Criterion A/1 above) research has not revealed exemplification of any "special elements" of Pomona's social or cultural history. It was one of many houses constructed during the era, and review of the historical record has not revealed that it had a significant role in local history. Likewise, its architectural and aesthetic features are typical of a very common style rather than special (as discussed under Criterion C/3 above). The building is a common property type and therefore does not reflect special elements of engineering history. The entire parcel is developed with buildings and landscaping, therefore there is no apparent potential for research into special elements of natural history. Research has not revealed any association with local economic or political history. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 1.

2. It is identified with persons or events significant in local, state, or national history;

As discussed above under Criterion A/1 and B/2, research has revealed no important associations with events significant to local, state, or national history. Research into the biographies of the pastors and farmers who lived in the house has not revealed any important association with persons or events significant and local, state, or national history. The people associated with the house may have been locally prominent during their lifetimes, but did not make a lasting impact on the denomination, on local history, on agriculture, or on other historical contexts. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 2.

3. It embodies distinctive characteristics of a style, type, period, or method of construction, or is a valuable example of the use of indigenous materials or craftsmanship;

As discussed above under Criterion C/3, 861 W. Orange Grove Ave does not embody distinctive characteristics of a style, type, period, or method of construction. The original 1922 house was a modest example of a Tudor-style domestic architecture. It utilized the basic aspects of the Tudor style, a period revival style popular in the US between 1890 and about 1940. Although this style was utilized for large, architect-designed houses, it was also adapted for modest residences such as this one. It features wood-frame construction with stucco cladding, a common method of construction in the 1920s as well as in 2020 and in the intervening decades. The building is not a valuable example of the use of indigenous materials; the physical details of this building do not indicate the use of any indigenous materials. It does not exhibit any distinctive or valuable examples of craftsmanship. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 3.

4. It contributes to the significance of an historic area, being a geographically definable area possessing a concentration of historic or scenic properties or thematically related grouping of properties which contribute to each other and are unified aesthetically by plan or physical development;

861 W. Orange Grove Ave is not part of or adjacent to an existing historic district. A neighborhood architectural survey to definitively assess eligibility of the neighborhood as a historic district is outside the scope of the current project, therefore it is unknown whether a potential historic district exists. The adjacent church, which was constructed between 1949 and 1959, exhibits some features of Tudor-style architecture similar to the residence, but two buildings cannot constitute a concentration of historic properties or a thematically related grouping of properties. Furthermore, neither building is architecturally or historically significant, so if they were part of a larger grouping of related properties, they would still not be eligible as contributors to a potential historic district. Historic aerial images and contemporary street photographs reveal that the immediate neighborhood was developed between the 1920s and the 1990s. The modest-sized single-family houses that characterize the neighborhood exhibit a variety of plans, materials, and architectural styles. Limited research has not revealed any indication that they are thematically related or that they contribute to each other or are unified aesthetically by plan or physical development. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 4.

5. It is the work of a notable building, designer, landscape designer, or architect;

As discussed above, 861 W. Orange Grove Ave was probably not designed by an architect. Nor has research revealed the identity of its original builder. It exhibits the simple characteristics of the house designed according to standard plans. Likewise, its landscaping is

typical and research has revealed no association with the landscape designer. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 5.

6. It has a unique location or singular physical characteristics or is a view or vista representing an established and familiar visual feature of a neighborhood, community, or the City of Pomona;

Every building is sited in a "unique" location in the sense that no two parcels can be exactly alike. However, W. Orange Grove Ave. is an ordinary street in Pomona with no notable features that distinguish it from other residential streets, and the 861 W. Orange Grove Ave parcel has no special qualities that distinguish it from neighboring parcels. Therefore, the property lacks the type of unique location that would render it eligible for historic listing. Although the church building is certainly visible from neighboring parcels in its residential neighborhood, it cannot be characterized as offering a view or vista. Nor does it represent such an established and familiar visual feature of the neighborhood, community, or city that it would qualify for historic listing. (Nearly every property is visible from its near neighbors and from the public right-of-way on the street where it is sited.) The house is not located on an important public thoroughfare for other highly visible location such as downtown Pomona. Although it has been a feature of its neighborhood in an approximation of its current form for century, it lacks the singular physical characteristics that would render it eligible for historic listing. A property would need to be more than ordinary to meet this criterion: attractive and harmonious architecture, picturesque vernacular building features, or a formerly common but now rare property type are examples of characteristics that might render a property eligible under this criterion, but are lacking for this house. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 6.

7. It embodies elements of architectural design, detail, materials, or craftsmanship that represent a significant structural or architectural achievement or innovation;

As discussed above under Criterion C/3 as well as under local Criteria 1, 3, and 5; 861 W. Orange Grove Ave does not embody elements of architectural design, detail, materials, or craftsmanship that represent a significant structural or architectural achievement or innovation. It is a modest example of a common style. Its wood frame construction, stucco cladding, and decorative detail as well as its craftsmanship are ordinary for their era and do not represent a significant achievement in the realm of architecture or engineering. Nor is there anything innovative about the building's design or structural qualities. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 7.

8. It is similar to other distinctive properties, sites, areas, or objects based on an historic, cultural, or architectural motif;

861 W. Orange Grove Ave does not exhibit similarity to any other known distinctive historic properties. Although it is a good simple example of the house of its era, it lacks the distinction required for historic listing, and is similar to many surviving unlisted properties. Research has revealed no important historical, cultural, or architectural motif that would render the property eligible for historical listing. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 8.

9. It reflects significant geographical patterns, including those associated with different eras of settlement and growth, particular transportation modes, or distinctive examples of park or community planning;

861 W. Orange Grove Ave is not associated with significant geographical patterns associated with Pomona's eras of settlement and growth. The neighborhood was utilized for citrus groves when it was constructed, but nothing remains of this geographical pattern associated with Pomona's agricultural past. The neighborhood is not strongly associated with any particular era of residential development since it was developed gradually over many decades. The property is generally associated with automobile transportation, since it is sited on a public street, but nearly every parcel has street access; this common element of development is not sufficient to render the property eligible for historic listing for association with automobile transportation. The property is a house and therefore not a distinctive example of park planning. It appears to have been developed as a single parcel and therefore lacks any association with a distinctive example of community planning. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 9.

10. It is one of the few remaining examples in the City of Pomona, region, state, or nation possessing distinguishing characteristics of an architectural or historical type or specimen.

As discussed above under Criterion C/3 as well as under local Criteria 1, 3, 5, and 7; 861 W. Orange Grove Ave is a common type of building (wood frame with stucco cladding) locally, regionally, throughout California, and nationwide. It is also an example of a common

architectural style and does not possess distinguishing characteristics of an architectural or historical type or specimen. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 10.

The property is not recommended to qualify for listing on the NRHP and CRHR and is therefore a historic resource under CEQA.

State of California – The Resources Agency **Primary # _____**
DEPARTMENT OF PARKS AND RECREATION **HRI # _____**
PRIMARY RECORD **Trinomial _____**
NRHP Status Code _____
Other Listings _____
Review Code _____ **Reviewer _____** **Date _____**

 ***Resource Name or #** (Assigned by recorder) 861 W. Orange Grove Ave.

P1. Other Identifier: 861 W. Orange Grove Ave.
***P2. Location:** ☐ **Not for Publication** ☒ **Unrestricted** ***a. County** Los Angeles
and (P2b and P2c or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad** San Dimas **Date** 1981 **T** 1S ; **R** 8W ; Non-sectioned ; **S.B.B.M.**
c. Address 861 W. Orange Grove Ave. City Pomona Zip 91768
d. UTM: (give more than one for large and/or linear resources) Zone 11 ; 429268.45 mE/ 3769930.63 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate)

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

The single-story building is square in plan with a moderately-pitched front-gabled roof and narrow eaves with exposed rafter tails. It is just northwest of the main house on the parcel, for which it originally served as a garage. It is clad in stucco. Fenestration consist of vinyl replacement sash with interior muntins. Its primary entrance is at grade left of center on the south (main) façade. A secondary entrance on the north elevation is fitted with a wood panel door, and there is an original double-hung wood sash window adjacent. The building lacks decorative features or references to any particular architectural style.

***P3b. Resource Attributes:** (List attributes and codes) HP10. Residence

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

P5b. Description of Photo: (View, date, accession #) Photograph 1: South elevation, camera facing north, photograph taken July 8, 2019.

***P6. Date Constructed/Age and Sources:**
☒ Historic ☐ Prehistoric ☐ Both
1932, Los Angeles County Property Information System

***P7. Owner and Address:**
Pomona Fellowship Church of the Brethren
875 W. Orange Grove Avenue
Pomona, CA 91786

***P8. Recorded by:** (Name, affiliation, address)
Kara Brunzell, Dylan Williams
BCR Consulting LLC.
585 W. Eighth Street,
Claremont, CA 91784

***P9. Date Recorded:** July 8, 2019

***P10. Survey Type:** (Describe) Intensive

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") None
***Attachments:** NONE ☒ Location Map ☐ Sketch Map ☒ Continuation Sheet ☒ Building, Structure, and Object Record ☐ Archaeological Record
☐ District Record ☐ Linear Feature Record ☐ Milling Station Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record
☐ Other (list) _____

B1. Historic Name: N/A
B2. Common Name: N/A
B3. Original Use: Residential B4. Present Use: Vacant
***B5. Architectural Style:**
***B6. Construction History:** (Construction date, alteration, and date of alterations)
1932, Original construction as a detached garage
1952, Conversion to one-unit residence
Unknown date after 1990, replacement of original windows

***B7. Moved?** ☒ **No** ☐ **Yes** ☐ **Unknown** **Date:** _____ **Original Location:** _____
***B8. Related Features:** _____
B9. Architect: b. Builder: "Day work"
***B10. Significance: Theme** N/A **Area** N/A
Period of Significance N/A **Property Type** N/A **Applicable Criteria** N/A
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)
B11. Additional Resource Attributes: (List attributes and codes)
***B12. References:**
(See Footnotes)
B13. Remarks:

***B14. Evaluator:** Kara Brunzell

***Date of Evaluation:** July 9, 2019

(This space reserved for official comments.)

***P3a. Description: (continued):**

Photograph 2: Second residence showing gate enclosure, the church driveway and parking lot, and the detached garage, south elevation and west elevation (obscured by shrubbery), camera facing northeast, July 8, 2019.

Photograph 3: Posterior of the second residence, north and west elevations, camera facing southeast, July 8, 2019.

Photograph 4: Alternate view of second residence's posterior and the cement walkway leading to the front residence, north and east elevations, camera facing southwest, July 8, 2019.

B10. Significance (continued):

Historic Context of Pomona

Prehistoric, Spanish, and Mexican Periods

The Gabrielino-Tongva people occupied the Pomona area with its abundant natural resources prior to the arrival of Spanish missionaries in 1769. Mexican independence from Spain in 1834 led to secularization of the missions and distribution of mission lands into large landowners. Ygnacio Palomares and Ricardo Vejar were sons of Spanish loyalists and explorers who managed cattle and horses at Rancho de las Aguas. In 1837, Mexican Governor Juan Bautista Alvarado granted 22,430 acres of former Mission San Gabriel grazing lands to Palomares and Vejar, who named the territory Rancho San Jose. The land was split between the two men, with present-day Pomona lying within both Palomares' northern half, Rancho San Jose de Arriba, and Vejar's southern half, Rancho San Jose de Abajo. As California transitioned to American statehood following the Mexican-American War in 1850, the region began a process of dynamic changes. The development of two roads running from San Bernardino through the rancho, one directed west toward Los Angeles and another south toward Temecula, previewed Pomona's future as a commercial hub.[1]

American Foundations in Pomona

Ricardo Vejar settled a $28,000 debt to speculator Isaac Schlesinger by deeding him San Jose de Abajo. After controversy over his right to ownership, Schlesinger sold the property to successful and experienced rancher Louis Phillips in 1866. Phillips established a mansion on the land and improved oversight over ranching operations. Phillips' most impactful contribution to Pomona's history was when he ultimately sold nearly three thousand to the Pomona Land and Water Company (PLWC) in 1882. The company was organized in 1882 to

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harness water and to facilitate sale of land to prospective Pomona residents. Booming land speculation and organized residential settlements led to the formal incorporation of Pomona (named after the Roman goddess of fruitful abundance) in 1888. [2]

Arrival of the railroads in the 1880s facilitated the emigration of newcomers to Pomona and stimulated growth in the emerging citrus industry. In the 1870s and 1880s that vast acreages of citrus groves were being cultivated by Pomona settlers. The Pomona citrus industry's place along two major railroad lines at the heart of Southern California's broader citrus-growing empire made the town an opportune and alluring settlement during western American expansion through the turn of the twentieth century. By 1890, the city reported 3,634 people living within its limits. By 1911, Pomona had become a charter City.[3]

Mid-Century Expansion

Internal development and modernization characterized mid-twentieth century Pomona's growth as an American city. Despite being an overwhelmingly white population, the twentieth century saw an influx of African Americans, Chinese, and, most notably, Japanese and Latino laborers. While Japanese immigrants were the largest minority group in Pomona until the 1920s, state legislation restricted their numbers in subsequent years so that Latinos the predominant demographic of citrus industry workers. Flooding concerns necessitated the 1924 construction of Puddingstone Dam northwest of Pomona, simultaneously creating a 250-acre lake for the region's recreational usage. The Fox Theater in downtown Pomona opened in 1931 as a premier cinematic venue. The 1950s and 1960s saw the construction of the 10 Freeway through Pomona with the rise of the personal automobile, construction of new civil service buildings in and around the downtown area, and the emergence of shopping centers and malls. Special interest groups and social welfare organizations arose for purposes ranging from women's social clubs to childcare for the physically handicapped.[4]

The city of Pomona and the surrounding towns founded upon rich agriculture saw the continued success of local citrus production translate into a multibillion-dollar industry by the late 1930s. The agricultural character Pomona was capitalized upon with the inauguration of the Los Angeles County Fair, and the inaugural fair opened in October 1922 to nearly 50,000 residents and visitors. Pomona solicited volunteer services to aid defense preparation during World War II, and one in every ten residents received some form of defense training. Over 3,000 men between ages twenty-one and thirty-six registered for the draft from Pomona and neighboring cities. The Los Angeles County Fairgrounds was appropriated for use as a Japanese detention center during the war, then as an army training center. After the war, Pomona saw increased commercial, civic, and infrastructural development as the economy shifted away from agricultural dominance to consumer culture. Returning war veterans, continued immigration to California, rising land values from commercial development, and construction of new residences changed the landscape of the city. Like other former agricultural hubs in Southern California Pomona grew into a bedroom community after World War II. Its population expanded from 13,505 residents in 1920 to 67,157 residents in 1960. [5]

Pomona Today

In recent decades, Pomona's evolution into a modern-day city was driven by expansive development and further diversification. City residences and business began to spread toward the north and east, toward neighboring La Verne and Claremont. Construction of the Route 60 Freeway, colloquially known as the "Pomona Freeway," cut through the southern part of the city, offering new routes of transportation to the east and west and, consequentially, new business opportunities along the route. Major institutions such as Cal Poly Pomona and Pomona Valley Hospital Medical Center also saw significant improvements paralleling the city's own growth. These expanded institutions were necessitated by the large influx of residents from Los Angeles and its surrounding areas of high population to suburb cities like Pomona beginning in the 1960s. Conditions for racial minorities living in the area, specifically Latinos and African Americans, have changed drastically. In the latter half of the century, Latino communities once accustomed to abundant working opportunities and decent wages in citrus production saw the market's decline and experienced a transition to the less lucrative industrial

[2] Gallivan, *Early Pomona*, 8.; *Pomona Valley Community Book*, 33-34, 43.; Norton B. Stern, "Louis Phillips of the Pomona Valley: Rancher and Real Estate Investor," Southern California Quarterly 65, no. 2 (Summer 1983): 171-173, 181.; F.L. Palmer, *Pomona, Illustrated and Described* (Pomona: Pomona Land and Water Co., 1885), 15, 19.

[3] Stern, "Louis Phillips of the Pomona Valley," 178.; "History of Pomona," City of Pomona, accessed 27 June 2019.; King, *Pomona: the Citrus Empire*, 40-41, 58-59.; *Pomona Valley Community Book*, 72-74, 85-91.; United States Bureau of the Census, *Report on the Population of the United States 1890*, (Washington, D.C.: Government Printing Office, 1864), 71.

[4] King, *Pomona: the Citrus Empire*, 80, 88.; *Pomona Valley Community Book*, 81.; Gallivan, *Early Pomona*, 10.;.

[5] Matt Garcia, *A World of its Own: Race, Labor, and Citrus in the Making of Greater Los Angeles, 1900-1970* (Chapel Hill: University of North Carolina Press, 2001), 23.; "Our History," Pomona Fairplex, accessed 27 June 2019, https://fairplex.com/aboutus/our-history; *Pomona Valley Community Book*, 184-186.; King, *Pomona: the Citrus Empire*, 96-97; United States Bureau of the Census, *Census of Population: 1960*, (Washington, D.C.: Government Printing Office, 1864), 19.

labor force. Meanwhile, the Latino population became the majority demographic after 1960, and many Latinos have held political positions of prominence. Social welfare groups like the Pomona chapter of the Urban League also worked to provide food, shelter, and civil rights activist support to improve living conditions for African Americans in the city. Today, Pomona is the diverse home to over 151,000 residents, making up the seventh largest city in Los Angeles County. [6]

Property Under the Ownership of the Alkire Family

In 1890, Josiah Alkire purchased thirteen acres of land formerly held by the Palomares family from George Rhorer for $13,000 and resided there with his wife and sons. Alkire had been a prosperous grocer from St. Louis before arriving and purchasing land in the west. According to newspaper reports on the sale, the property in Pomona was lush with fruit-bearing orange groves. Collaborating with the neighboring Phelan family in 1895, the Alkires applied for a right of way to establish a water tunnel through their respective properties to provide water in the area. The tunnel tapped into several subterranean streams originating in the foothills and provided irrigation for numerous estates in the western and southwestern portions of Pomona Valley, including the subject property.[7]

Private Residences and the Pomona Fellowship Church of the Brethren

The house appears to have originally been constructed about 1922 for the Copeland family. The neighborhood was during that period on the outskirts of Pomona, with widely-spaced residences surrounded by citrus orchards. Belle (1863-1946) and Thomas B. Copeland (1856-1928) were Iowa residents who relocated to Pomona in about 1899, when their son Ross was ten. The family moved to Los Angeles and Thomas worked at various jobs until the couple moved back to Pomona in the early 1920s. By 1922, Belle and Thomas Copeland lived at 1021 West Orange Avenue, a few years later the address had changed to 891 West Orange Grove Avenue. Thomas Copeland died in 1928, and Belle moved to a nearby house. By 1931 L. (Lewis) Clair and Elyse M. Hammond had moved into 891 West Orange Grove Avenue. L. Clair Hammond was born in New York in 1892. The Hammonds appear to have constructed the small house next door as a garage in 1932. As an adult he lived in California and worked as an appliance salesman. Elyse M. Hammond was born in Iowa and worked as a real estate broker. The couple lived in the house for only a few years before returning to Los Angeles.[8]

By 1940, orange rancher Edwin T. Wells and his wife Dorothy owned and lived in the house. The elder Wells's were in their late 40s, and their son James was in his mid-teens. The family had lived in Pasadena before coming to Pomona to grow oranges, and by 1949 had returned to Pasadena after selling the house to the Church of the Brethren.[9]

In 1949, the Pomona Fellowship Church of the Brethren (then called the Pomona Church of the Brethren) purchased nine acres of land along Orange Grove Avenue for the purpose of building a new church building on roughly three acres and subdividing the rest. This development implies that the subject property was included in the properties titled to the Pomona Church of the Brethren, with the existent residential units becoming a parsonage of the church. The main residence was utilized for various clergymen and their families or leased to in-need community members. In 1952, the detached garage was converted into a one-bedroom living space. The church proceeded to utilize both units as part of the parsonage. In 1978, a new detached garage unit was built behind the parsonages on the property shared by the church building, with intended usage by both the church and the private residences.[10]

Evaluation:

The NRHP and California Register of Historical Resources (CRHR) require that a significance criterion from A-D or 1-4 (respectively) be met for a resource to be eligible.

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[6] King, *Pomona: the Citrus Empire*, 104-105.; "Heritage – a Brief History," Cal Poly Pomona, accessed 1 July 2019, https://www.cpp.edu/~aboutcpp/heritage/index.shtml.; "History of PVHMC," Pomona Valley Hospital Medical Center, accessed 1 July 2019, https://www.pvhmc.org/About-Us/Our-History.aspx., Garcia, *A World of Its Own*, 225-226.

[7] "Horticultural Notes," *Los Angeles Times*, April 18, 1890, 7; "Pomona – Progress of the Great Alkire-Phelan Tunnel," Los Angeles Times, July 3, 1894, 9; "Pomona Valley Brevities," Los Angeles Times, January 1, 1896, 20.

[8] US Census Records, Los Angeles, 1900, 1910, 1920; Find A Grave, Thomas B. Copeland, https://www.findagrave.com/memorial/167749232, accessed July 22, 2019; Pomona City Directory, 1922, 1928, 1931, "1940 United Sates Federal Census", Sixteenth Census of the United States.

[9] Pomona City Directory, 1940, US Census Records, Los Angeles, 1940; Pasadena City Directory, 1932, 1949.

[10] Los Angeles County Property Assessor, "Property Characteristics and Values, APN: 8358-009-009," County of Los Angeles Assessor's Office, accessed 9 July 2019; Gallivan, *Early Pomona*, 105; Los Angeles County Recorder's Office, "Grant Deed, APN: 8358-009-009," County of Los Angeles, State of California, recorded July 27, 1989; Department of Building and Safety, "Application of Alterations and Improvements – 861 W. Orange Grove [Avenue]," City of Pomona, June 5, 1952; Department of Community Development, "Application for Building Permit – 875 W. Orange Grove [Avenue]," City of Pomona, August 8, 1978.

Criterion A/1: The house is not associated with events that have made a significant contribution to the broad patterns of our history. It was constructed as a garage in 1932, and was later converted to a modest dwelling. Research has revealed no significant association between the house and any important historic context. Therefore, the property is recommended not eligible to the NRHP or CRHR under Criterion A/1.

Criterion B/2: The early owners and residents of the house were not important to Pomona history. Likewise, the people associated with the Church of the Brethren who lived there after the church purchased the property were not important to local history or to the history of the denomination. Therefore, it is not recommended eligible to the NRHP or CRHR under Criterion B/2.

Criterion C/3: The house is a simple example of a garage constructed in association with a modest residence, which was later converted to residential use. Research has not revealed historic photographs or other evidence of its exact original form and details, however its original use as a garage associated with a modest residence indicates that in its original form it would have been a primarily utilitarian building that lacked architectural distinction. It has been altered since its original construction and does not convey its original identity as a garage. Nor is the building architecturally significant house, it is a modest, pragmatic dwelling without distinctive design. For these reasons, the property is recommended not eligible to the NRHP and CRHR under Criterion C/3.

Criterion D/4: In rare instances, buildings themselves can serve as sources of important information about historic construction materials or technologies and be significant under Criterion D/4. The house is a common and well-understood building type and therefore does not appear to be a principal source of important information in this regard.

City of Pomona Historic Landmark Designation Criteria

An improvement, natural feature, or site may be designated an Historic Landmark by the Historic Preservation Commission and City Council and any area within the City of Pomona may be designated an Historic District pursuant to Subsection E of this Section, if the building or majority of buildings (in a district) are fifty (50) or more years old or of exceptional quality if less than fifty (50) years old, and it meets one or more of the following criteria:

1. It exemplifies or reflects special elements of the City of Pomona's cultural, social, economic, political, aesthetic, engineering, architectural, or natural history;

The ancillary dwelling at 861 W. Orange Grove Ave does not exemplify or reflect special elements of local history. Constructed as a garage in 1932 and later converted to residential use (as discussed under Criterion A/1 above) research has not revealed exemplification of any "special elements" of Pomona's social or cultural history. It was an ordinary garage that was converted into a modest ancillary dwelling and as such lacks the potential to have played a significant role in local history. Likewise, its architectural and aesthetic features do not reference any particular style and cannot be termed special (as discussed under Criterion C/3 above). The building is a common property type and therefore does not reflect special elements of engineering history. The entire parcel is developed with buildings and landscaping, therefore there is no apparent potential for research into special elements of natural history. Research has not revealed any association with local economic or political history. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 1.

2. It is identified with persons or events significant in local, state, or national history;

As discussed above under Criterion A/1 and B/2, research has revealed no important associations with events significant to local, state, or national history. Research into the biographies of the farmers who owned the garage when it was constructed and the church leaders who later owned it has not revealed any important association with persons or events significant and local, state, or national history. Research is not revealed the identity of persons who lived in the house after 1952, but significant figures are unlikely to have lived in a one-bedroom converted garage. Research has revealed no association with a person who made a lasting impact on the denomination, on local history, on agriculture, or on other historical contexts. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 2.

3. It embodies distinctive characteristics of a style, type, period, or method of construction, or is a valuable example of the use of indigenous materials or craftsmanship;

As discussed above under Criterion C/3, the ancillary dwelling at 861 W. Orange Grove Ave does not embody distinctive characteristics of a style, type, period, or method of construction. The original 1932 garage was a modest in size and research has revealed no evidence that it was architecturally distinctive. It features wood-frame construction with stucco cladding, a common method of construction in the 1930s as well as in 2020 and in the intervening decades. The building is not a valuable example of the use of indigenous materials; the physical

details of this building do not indicate the use of any indigenous materials. It does not exhibit any distinctive or valuable examples of craftsmanship. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 3.

4. It contributes to the significance of an historic area, being a geographically definable area possessing a concentration of historic or scenic properties or thematically related grouping of properties which contribute to each other and are unified aesthetically by plan or physical development;

The ancillary dwelling at 861 W. Orange Grove Ave is not part of or adjacent to an existing historic district. A neighborhood architectural survey to definitively assess eligibility of the neighborhood as a historic district is outside the scope of the current project, therefore it is unknown whether a potential historic district exists. Historic aerial images and contemporary street photographs reveal that the immediate neighborhood was developed between the 1920s and the 1990s. The modest-sized single-family houses that characterize the neighborhood exhibit a variety of plans, materials, and architectural styles. Limited research has not revealed any indication that they are thematically related or that they contribute to each other or are unified aesthetically by plan or physical development. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 4.

5. It is the work of a notable building, designer, landscape designer, or architect;

As discussed above, the ancillary dwelling at 861 W. Orange Grove Ave was probably not designed by an architect. Nor has research revealed the identity of its original builder. It exhibits the simple characteristics of a garage designed according to standard plans and later converted to use as a simple residence. Likewise, its landscaping is typical and research has revealed no association with a landscape designer. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 5.

6. It has a unique location or singular physical characteristics or is a view or vista representing an established and familiar visual feature of a neighborhood, community, or the City of Pomona;

Every building is sited in a "unique" location in the sense that no two parcels can be exactly alike. However, W. Orange Grove Ave. is an ordinary street in Pomona with no notable features that distinguish it from other residential streets, and the 861 W. Orange Grove Ave parcel has no special qualities that distinguish it from neighboring parcels. Therefore, the property lacks the type of unique location that would render it eligible for historic listing. Although the church building is certainly visible from neighboring parcels in its residential neighborhood, it cannot be characterized as offering a view or vista. Nor does it represent such an established and familiar visual feature of the neighborhood, community, or city that it would qualify for historic listing. (Nearly every property is visible from its near neighbors and from the public right-of-way on the street where it is sited.) The house is not located on an important public thoroughfare for other highly visible location such as downtown Pomona. Although it has been a feature of its neighborhood in an approximation of its current form since the 1950s, it lacks the singular physical characteristics that would render it eligible for historic listing. A property would need to be more than ordinary to meet this criterion: attractive and harmonious architecture, picturesque vernacular building features, or a formerly common but now rare property type are examples of characteristics that might render a property eligible under this criterion, but are lacking for this dwelling. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 6.

7. It embodies elements of architectural design, detail, materials, or craftsmanship that represent a significant structural or architectural achievement or innovation;

As discussed above under Criterion C/3 as well as under local Criteria 1, 3, and 5; the ancillary dwelling at 861 W. Orange Grove Ave does not embody elements of architectural design, detail, materials, or craftsmanship that represent a significant structural or architectural achievement or innovation. It is a modest example of a common style. Its wood frame construction, stucco cladding, and lack of decorative detail are typical of utilitarian buildings of the era. It does not embody any notable elements of craftsmanship, and does not represent a significant achievement in the realm of architecture or engineering. Nor is there anything innovative about the building's design or structural qualities. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 7.

8. It is similar to other distinctive properties, sites, areas, or objects based on an historic, cultural, or architectural motif;

The ancillary dwelling at 861 W. Orange Grove Ave does not exhibit similarity to any other known distinctive historic properties. It was originally a garage, was converted to use as a modest residence in the 1950s, and has subsequently been further altered. Research has

revealed no important historical, cultural, or architectural motif that would render the property eligible for historical listing. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 8.

9. It reflects significant geographical patterns, including those associated with different eras of settlement and growth, particular transportation modes, or distinctive examples of park or community planning;

The ancillary dwelling at 861 W. Orange Grove Ave is not associated with significant geographical patterns associated with Pomona's eras of settlement and growth. The neighborhood was utilized for citrus groves when it was constructed, but nothing remains of this geographical pattern associated with Pomona's agricultural past. The neighborhood is not strongly associated with any particular era of residential development since it was developed gradually over many decades. The property is generally associated with automobile transportation, since it is sited on a public street, but nearly every parcel has street access; this common element of development is not sufficient to render the property eligible for historic listing for association with automobile transportation. The property is a residence and therefore not a distinctive example of park planning. It appears to have been developed as a single parcel and therefore lacks any association with a distinctive example of community planning. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 9.

10. It is one of the few remaining examples in the City of Pomona, region, state, or nation possessing distinguishing characteristics of an architectural or historical type or specimen.

As discussed above under Criterion C/3 as well as under local Criteria 1, 3, 5, and 7; ancillary dwelling at 861 W. Orange Grove Ave is a common type of building (wood frame with stucco cladding) locally, regionally, throughout California, and nationwide. It not a good example of any architectural style and does not possess distinguishing characteristics of an architectural or historical type or specimen. For these reasons, the property is not recommended eligible under the City of Pomona Historic Landmark Designation Criterion 10.

The property is not recommended to qualify for listing on the NRHP and CRHR and is therefore a historic resource under CEQA.

APPENDIX D

NATIVE AMERICAN HERITAGE COMMISSION SACRED LANDS FILE SEARCH

APPENDIX E

PROJECT PHOTOGRAPHS

Photo 1: Overview Near Soccer Field

Photo 2: Overview North of Sanctuary

Photo 3: Landscaped Area Overview

Photo 4: Playground Overview

Photo 5: Soccer Field

Photo 6: Telecommunications Facility

Photo 7: Church Property Entrance Overview

Photo 8: Church Property Overview

Appendix D

Energy Calculations

875 W Orange Grove Project

Last Updated: 12/12/2020

Compression-Ignition Engine Brake-Specific Fuel Consumption (BSFC) Factors **[1]**:

HP: 0 to 100	0.0588		HP: Greater than 100	0.0529

Values above are expressed in gallons per horsepower-hour/BSFC.

CONSTRUCTION EQUIPMENT

Construction Equipment	#	Hours per Day	Horsepower	Load Factor	Construction Phase	Fuel Used (gallons)
Concrete/Industrial Saws	1	8	81	0.73	Demolition	555.96
Excavators	3	8	158	0.38	Demolition	1,523.35
Rubber Tired Dozers	2	8	247	0.40	Demolition	1,671.19
Scapers	2	8	367	0.48	Site Prep	2,234.79
Graders	1	8	187	0.41	Grading	1,458.97
Excavators	1	8	158	0.38	Grading	1,142.52
Rubber Tired Dozer	1	8	247	0.40	Grading	1,880.09
Tractors/Loaders/Backhoes	3	8	97	0.37	Grading	2,277.77
Scrapers	0	0	367	0.48	Grading	-
Cranes	1	7	231	0.29	Building Construction Phase I	2,627.44
Forklifts	3	8	89	0.20	Building Construction Phase I	2,661.03
Generator Sets	1	8	84	0.74	Building Construction Phase I	3,097.56
Tractors/Loaders/Backhoes	3	7	97	0.37	Building Construction Phase I	4,694.74
Welders	1	8	46	0.45	Building Construction Phase I	1,031.52
Cranes	1	7	231	0.29	Building Construction Phase II	2,627.44
Forklifts	3	8	89	0.20	Building Construction Phase II	2,661.03
Generator Sets	1	8	84	0.74	Building Construction Phase II	3,097.56
Tractors/Loaders/Backhoes	3	7	97	0.37	Building Construction Phase II	4,694.74
Welders	1	8	46	0.45	Building Construction Phase II	1,031.52
Cranes	1	7	231	0.29	Building Construction Phase III	2,627.44
Forklifts	3	8	89	0.20	Building Construction Phase III	2,661.03
Generator Sets	1	8	84	0.74	Building Construction Phase III	3,097.56
Tractors/Loaders/Backhoes	3	7	97	0.37	Building Construction Phase III	4,694.74
Welders	1	8	46	0.45	Building Construction Phase III	1,031.52
Air Compressors	1	6	78	0.48	Architectural Coating Phase I	184.81
Air Compressors	1	6	78	0.48	Architectural Coating Phase II	184.81
Pavers	1	8	130	0.42	Paving Phase III	346.33
Paving Equipment	2	6	132	0.36	Paving Phase III	452.13
Paving Equipment	2	6	123	0.36	Paving Phase III	421.31
					Total Fuel Used	**56,670.93**
						(Gallons)

Construction Phase	Days of Operation
Demolition	20
Site Preparation Phase	15
Grading Phase	45
Building Construction Phase I	106
Building Construction Phase II	106
Building Construction Phase III	106
Architectural Coating Phase I	14
Architectural Coating Phase II	14
Paving Phase III	15
Total Days	421

WORKER TRIPS				
Constuction Phase	**MPG [2]**	**Trips**	**Trip Length (miles)**	**Fuel Used (gallons)**
Demolition	24.0	15	14.7	137.81
Site Preparation Phase	24.0	5	14.7	137.81
Grading Phase	24.0	15	14.7	413.44
Building Construction Phase I	24.0	27	14.7	1752.98
Building Construction Phase II	24.0	27	14.7	1752.98
Building Construction Phase III	24.0	27	14.7	1752.98
Architectural Coating Phase I	24.0	5	14.7	42.88
Architectural Coating Phase II	24.0	5	14.7	42.88
Paving Phase III	24.0	13	14.7	119.44
			Total Fuel Used	**6,153.18**

HAULING AND VENDOR TRIPS				
Trip Class	**MPG [2]**	**Trips**	**Trip Length (miles)**	**Fuel Used (gallons)**
HAULING TRIPS				
Demolition	7.4	104	20.0	281.08
Site Preparation Phase	7.4	375	20.0	1013.51
Grading Phase	7.4	594	20.0	1605.41
Building Construction Phase I	7.4	0	20.0	0.00
Building Construction Phase II	7.4	0	20.0	0.00
Building Construction Phase III	7.4	0	20.0	0.00
Architectural Coating Phase I	7.4	0	20.0	0.00
Architectural Coating Phase II	7.4	0	20.0	0.00
Paving Phase III	7.4	0	20.0	0.00
			Fuel Used	**2,900.00**
VENDOR TRIPS				
Demolition	7.4	0	6.9	0.00
Site Preparation Phase	7.4	0	6.9	0.00
Grading Phase	7.4	0	6.9	0.00
Building Construction Phase I	7.4	9	6.9	889.54
Building Construction Phase II	7.4	9	6.9	889.54
Building Construction Phase III	7.4	9	6.9	889.54
Architectural Coating Phase I	7.4	0	6.9	0.00
Architectural Coating Phase II	7.4	0	6.9	0.00
Paving Phase III	7.4	0	6.9	0.00
			Fuel	**2,668.62**

Total Gasoline Consumption (gallons)	**6,153.18**
Total Diesel Consumption (gallons)	**62,239.55**

Sources:

[1] United States Environmental Protection Agency. 2018. *Exhaust and Crankcase Emission Factors for Nonroad Compression-Ignition Engines in MOVES2014b* . July 2018. Available at: https://nepis.epa.gov/Exe/ZyPDF.cgi?Dockey=P100UXEN.pdf.

[2] United States Department of Transportation, Bureau of Transportation Statistics. 2018. *National Transportation Statistics 2018* . Available at: https://www.bts.gov/sites/bts.dot.gov/files/docs/browse-statistical-products-and-data/national-transportation-statistics/223001/ntsentire2018q4.pdf.

875 W Orange Grove Project

Last Updated: 12/12/2020

Populate one of the following tables (Leave the other blank):

Annual VMT		Daily Vehicle Trips
Annual VMT: 1,063,867	**OR**	Daily Vehicle Trips:
		Average Trip Distance:

Fleet Class	Fleet Mix
Light Duty Auto (LDA)	0.552035
Light Duty Truck 1 (LDT1)	0.041482
Light Duty Truck 2 (LDT2)	0.206421
Medium Duty Vehicle (MDV)	0.111285
Light Heavy Duty 1 (LHD1)	0.012766
Light Heavy Duty 2 (LHD2)	0.005738
Medium Heavy Duty (MHD)	0.022315
Heavy Heavy Duty (HHD)	0.037879
Other Bus (OBUS)	0.002185
Urban Bus (UBUS)	0.001506
School Bus (SBUS)	0.004914
Motorhome (MH)	0.000717
Motorcycle (MCY)	0.000757
	1.000000

Fuel Economy (MPG)	
Passenger Vehicles	24.0
Light-Med Duty Trucks	17.4
Heavy Trucks/Other	7.4
Motorcycles	43.9

Fleet Mix

Vehicle Type	Percent	Fuel Type	Annual VMT: VMT	Vehicle Trips: VMT	Fuel Consumption (Gallons)
Passenger Vehicles	*55.20%*	*Gasoline*	587291.82	0.00	24470.49
Light-Medium Duty Trucks	*35.92%*	*Gasoline*	382128.26	0.00	21961.39
Heavy Trucks/Other	*8.80%*	*Diesel*	93641.57	0.00	12654.27
Motorcycle	*0.08%*	*Gasoline*	805.35	0.00	18.35
	100.00%		1063867.00		

Total Gasoline Consumption (gallons)	**46450.23**
Total Diesel Consumption (gallons)	**12654.27**

Appendix E

Phase I and Phase II Environmental Site Assessment

August 22, 2019

Lewis Land Developers, LLC
1156 North Mountain Avenue
Upland, California 91786

Project No. 33557.2

Attention: Mr. Riley Lewis, Development Feasibility Manager

Subject: Phase I and II Environmental Site Assessment
Proposed Single-Family Residential Development
861, 863, & 875 West Orange Grove Avenue
APNs 8358-009-006, -009, and -010
Pomona, Los Angeles County, California

Attached herewith is the Phase I and II Environmental Site Assessment (ESA) report prepared by this firm for the proposed single-family residential development in Pomona, California.

DRAFT

This Phase I and II ESA was planned and executed based upon a scope of services generally described in our Proposals, dated April 11 and July 17 (Revised July 29), 2019, and Work Authorization Agreement, dated June 20, 2019, and other written and verbal communication with your office.

We appreciate the opportunity to provide this environmental assessment for the subject site. If you have any questions or comments regarding this evaluation, please do not hesitate to contact this firm at your convenience.

LOR Geotechnical Group, Inc.

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EXECUTIVE SUMMARY

This firm conducted a Phase I Environmental Site Assessment (ESA) for a proposed single-family residential development, Assessor's Parcel Numbers (APNs) 8358-009-006, -009, and -010, located at 861, 863, and 975 West Orange Grove Avenue in Pomona, California. This Phase I ESA was conducted in conformance with American Society for Testing and Materials (ASTM) E1527-13 and All Appropriate Inquiries (AAI) set forth in 40 CFR (Code of Federal Regulations) part 312.

Historically, the subject site usage included agricultural grove, vacant land, residential, cellular communication tower, and/or church from at least the late 1800s to the present time. The agricultural grove usage ended in the late 1940s, around the time the original portion of the onsite church building was under construction. An addition to the church was made in 1956. The two present day single-family residences were built in the early 1930s, with the nearby detached garage built in the late 1970s. From 2005 to 2009, a cellular communication tower and associated equipment enclosures were built.

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The Asbestos and Lead-Based Paint Surveys performed by L.Y. Environmental, Inc. (LYEI) at the onsite church building, two single-family residences, and a detached garage, concurrent with this Phase I and II ESA, indicates some building materials were found to contain asbestos or lead-based paint.

During our site reconnaissance, household quantities of hazardous materials were observed in the containers up to 5 gallons, including paint, gasoline, paint thinner, lacquer thinner, fertilizer, insecticide, and herbicide. Also, lead acid batteries and diesel for emergency electric backup generator are present within cellular communication equipment enclosures. A utility pole along the west/southwest side of the site has a mounted electrical transformer, likely containing transformer oil. No chemical leakage was observed. All containers of hazardous materials within the area of the proposed single-family residential development should be lawfully utilized or transported offsite prior to development.

No stained soils or chemical odor were noted onsite. Minor oil staining is present on the asphalt in the parking areas and diesel-stained concrete was observed in the secondary containment for the emergency electric backup generator in the eastern of the northerly cellular communication equipment enclosures, both de minimis conditions. A hardened material, possibly glue or spray insulating foam, was observed in a grass area along the west/southwest side of the southerly end of the sanctuary of the church building.

No environmental regulatory records were found for the subject site, except for the County of Los Angeles Fire Department, Health Hazardous Materials Division and California Department of Toxic Substances Control (DTSC). These records were related to lead acid batteries associated with the onsite cellular communication equipment and hazardous wastes associated with City of Pomona, Department of Public Works annual community cleanup events which involve the collection of waste oil and electronic wastes.

Based on the information provided in these environmental regulatory records, no adverse environmental impact to the subject site is anticipated.

There are numerous sites listed in environmental regulatory databases within 1 mile of the subject site, including the subject site. The subject site was listed for activities related to the onsite cellular communication equipment and City of Pomona, Department of Public Works community cleanup events. Based on the results of our Vapor Encroachment Screen (VES), Tier 1 screening, a vapor encroachment condition at the subject site can be ruled out. Based on our review of environmental regulatory databases and VES, no environmentally impaired properties, listed within these databases, have current or former releases of hazardous substances and/or petroleum products that have migrated to and/or impacted the subject site.

Based on the past agricultural grove usage and likely presence of building materials with lead-based paint, a Phase II ESA was performed, which included soil sampling. Four discrete soil samples for total arsenic and organochlorine pesticides (OCPs) across the subject site, and fourteen composite soil samples for lead in soil near the foundations of the four onsite buildings, were collected. None of the four discrete soil samples had reportable concentrations of OCPs. Reported concentrations of total arsenic, ranging from 1.61 to 4.67 milligrams per kilogram (mg/kg), are within the expected background range (Bradford et al., 1996), and indicate no arsenic-impacted soils are present from past grove usage. The fourteen composite soil samples had concentrations of total lead reported from 12 to 954 mg/kg, nine of which exceed the California DTSC soil screening level for lead in residential soils at 80 mg/kg (California Department of Toxic Substances Control, 2019b). Additional soil sampling for total lead was conducted at 31 locations with three soil borings at each, advanced and sampled up to approximately 5 feet below ground surface (bgs), typically around 1, 3, and 5 feet away from building structures or associated concrete walks, roof drains, or brick planter. A total of three hundred and fifty-nine (359) soil samples were analyzed, with total lead concentrations ranging from non-detect at 0.500 mg/kg to 193 mg/kg. Twenty-three (23) of the three hundred and fifty-nine (359) soil samples had total lead concentrations exceeding the California DTSC soil screening level for lead in residential soils at 80 mg/kg. All of these twenty-three (23) soil samples were

collected from the upper several inches of soil. All of the soil samples collected in the range from approximately 1 to 5 feet bgs had total lead concentrations less than the California DTSC soil screening level for lead in residential soils.

Based on the findings of the Phase I and II ESA and with consideration given to the recommendations contained in this report, (1) the subject site exhibits no evidence of recognized environmental conditions (RECs), historical recognized environmental conditions (HRECs), and/or controlled recognized environmental conditions (CRECs) indicative of releases or threatened releases of hazardous substances on, at, in, or to the subject site that would prohibit its use as a residential development, and (2) no further investigations are recommended, except for the following:

- The historical presence of lead-based paint at the exterior of the four onsite buildings has resulted in surficial lead-impacted soils, and is a REC. Based on the number of samples and reported total lead results, we would not anticipate a significant impact to the proposed single-family residential development following grading activities, which will include approximately 4 to 6 feet of over-excavation, and will reduce the concentrations of total lead identified in the soils near or adjacent to the onsite buildings. However, taking a conservative approach to ensure there is no significant impact to the proposed residential development, we recommend removing the upper 1 foot of soil around and up to approximately 6 feet away from the four onsite buildings and associated features where lead-impacted soils have been identified. These impacted soils should be removed prior to site residential development. Future remedial activities to remove the lead-impacted soils should include confirmation soil sampling to verify adequate removal of impacted soils and offsite transport of these impacted soils to an appropriate disposal facility. To facilitate future remedial excavation of lead-impacted soils, the onsite building foundations and associated concrete walks should be left in place following demolition or these features should be surveyed so their exact location can be readily identified during remedial activities.

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INTRODUCTION

During June to July 2019, a Phase I Environmental Site Assessment was conducted by this firm for a proposed single-family residential development, APNs 8358-009-006, -009, and -010, located at 861, 863, and 975 West Orange Grove Avenue in Pomona, Los Angeles County, California. The subject site is currently a church with associated single-family residential area and leased areas for cellular communication equipment, including a tower and equipment enclosures.

The Phase I ESA was conducted in conformance with the Standard Practice for Environmental Site Assessments: Phase I ESA Process, ASTM E1527-13, and AAI set forth in 40 CFR Part 312. The purpose was to identify RECs, HRECs, and/or CRECs that may be associated with the subject site. A REC is defined as the presence or likely presence of any hazardous substance or petroleum products in, on, or at a property: (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. A HREC is defined as a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meets the unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (i.e., property use restrictions, activity and use limitations, institutional controls, or engineering controls, which would fall under a controlled recognized environmental condition or CREC). This does not include de minimis conditions, that generally, do not present a threat to human health or the environment and generally would not be the subject of an enforcement action if brought to the attention of the appropriate government agency. Conditions determined to be de minimis are not recognized environmental conditions or controlled recognized environmental conditions.

Concurrent with this Phase I ESA, a Phase II ESA was conducted to evaluate potential impacts to onsite soil from past agricultural grove use and lead-based paint at the exterior of the church building, two single-family residences, and detached garage.

The approximate location of the site within its regional setting is presented on an Index Map (Figure 1). A Conceptual Site Plan, Figure 2, shows the planned single-family residential development. The findings of our Phase I and II ESA, as well as our conclusions and recommendations, are presented in the following sections of this report.

NON-SCOPE CONSIDERATIONS

The following environmental issues are outside the scope of ASTM E1527-13 and 40 CFR Part 312:

- Lead in Drinking Water
- Lead-Based Paint
- Wetlands
- Methane
- Radon
- Cultural Land Historical Resources
- Industrial Hygiene
- Health and Safety
- Ecological Resources
- Endangered Species
- Indoor Air Quality
- Mold and Mildew
- Asbestos-Containing Materials
- Mineral Resources
- Regulatory Compliance
- Natural Hazards
- High Voltage Power Lines

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METHODOLOGY AND PROCEDURES

Per ASTM E1527-13 and AAI, provided User provided information was evaluated with respect to site history, usage, and environmental concerns.

A general review of the physical setting of the subject site, including geology and hydrogeology, was performed. This review, in part, provides information regarding the potential for groundwater to be contaminated and the potential pathways for contaminant transport.

Historical maps, aerial photographs, and other records and information, including building records and property information, were researched and examined, as available, to investigate the use of the subject site and surrounding area.

During this Phase I ESA, public regulatory agencies, including environmental, were contacted directly or online research was conducted for information regarding permits, underground storage tanks (USTs), hazardous materials incidents, and general information about the subject site and surrounding area to ascertain the past uses with respect to environmental concerns.

As available, person(s) knowledgeable about the subject site were interviewed to obtain any known information regarding site usage and potential environmental concerns.

Concurrent with our public and governmental agency interviews and literature research, a site reconnaissance of the property was conducted. The site reconnaissance was conducted in order to determine current uses of the site and the potential for soil and/or possible groundwater contamination based on aboveground visual observation.

Federal, state, local, tribal, and proprietary lists and databases were reviewed to ascertain the presence of known environmentally impaired sites on the subject site or within the immediate area, and to determine their impact, if any, to the site.

As part of this Phase I ESA, a VES was conducted to determine if a vapor encroachment condition exists, based on the information obtained during the Phase I ESA.

The Phase II ESA included the collection of soil samples and review of analytical data associated with these samples to evaluate potential impacts to onsite soils from past agricultural use and building exterior lead-based paint.

CONCURRENT INVESTIGATION AND SURVEYS

Concurrent with this Phase I and II ESA, this firm conducted a Preliminary Geotechnical Investigation and LYEI was subcontracted to perform Asbestos and Lead-Based Paint Surveys.

Preliminary Geotechnical Investigation

A Preliminary Geotechnical Investigation (PGI) was conducted by this firm concurrently with this Phase I ESA. This investigation included the placement of five (5) exploratory soil borings ranging in depths from approximately 26 to 34 feet bgs across the subject site. Although done specifically to address the engineering properties of the onsite soils, no subsurface structures, unusual odors, or stained soils were noted. No fill materials, bedrock, or groundwater were encountered to the maximum exploratory depth at 34 feet

bgs. The detailed results and evaluation of our PGI have been submitted to the client under a separate report (LOR Geotechnical Group, Inc., 2019).

Asbestos and Lead-Based Paint Surveys

Based on the age of the onsite buildings and regulatory agency requirements for the planned future demolition of these buildings, Asbestos and Lead-Based Paint Surveys, including at the church building, two single-family residences, and a detached garage, were performed by LYEI. Some building materials were found to contain asbestos or lead-based paint (LYEI, 2019a, LYEI, 2019b, and LYEI, 2019c). Some of the exterior painted surfaces included positive readings for lead-based paint.

USER PROVIDED INFORMATION

ASTM E1527-13 defines a User as the party seeking to use Practice E1527 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.

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Under ASTM E1527-13 and AAI, specific tasks are assigned to the User that will help identify the possibility of RECs in connection with the property. These tasks do not require the technical expertise of an environmental professional and are generally not performed by environmental professionals performing a Phase I ESA. The User may provide the information gathered from these tasks, including the following:

- Any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law;
- Any activity and land use limitations (AULs), such as engineering controls, land use restrictions, or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state, or local law;
- Specialized knowledge or experience (that is material to RECs in connection with the property) of the User related to the property or nearby properties (for example, is the User involved in the same line of business as the current or former occupants of the property or an adjoining property so that the User would have specialized knowledge of the chemicals and processes used by this type of business);
- Relationship of the purchase price to the fair market value of the property if it were not contaminated (reason for significantly lower purchase price, such as

contamination is known or believed to be present at the property);

- Commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases (such as the past uses of the property, specific chemicals that are present or once were present at the property, spills or other chemical releases that have taken place at the property, and any environmental cleanups that have taken place at the property);
- Any obvious indicators that point to the presence or likely presence of contamination at the property, based on the knowledge and experience of the User related to the property; and
- Other information, including the reason why the Phase I ESA is required and/or is being performed, the type of property and type of property transaction (sale, purchase, exchange, etc.), the complete and correct address for the property, the scope of services desired for the Phase I ESA, identification of all parties who will rely on the Phase I ESA report, identification of the site contact and how the contact can be reached, any special terms and conditions which must be agreed upon by the environmental professional, and any other knowledge or experience with the property that may be pertinent to the environmental professional (for example, copies of any available prior environmental site assessment reports, documents, correspondence, etc., concerning the property and its environmental condition).

A User Questionnaire, as provided in ASTM E1527-13, was completed by a representative of the current owner (a User) of the subject site. The information provided in the completed questionnaire does not suggest any environmental concerns are associated with the subject site, except for past use as an orange grove. Small quantities of paint and gasoline are indicated to be stored at the subject site. Asbestos was identified as being present in the roof tiles for the church building sanctuary. There are no known environmental liens, activity or use limitations, spills or chemical releases, or environmental cleanups associated with the subject site. A copy of the completed User Questionnaire is provided in Appendix A.

A second User, the client, provided an Updated Preliminary Title Report for the subject site, prepared by Ticor Title Company of California, dated March 5, 2019, and was reviewed as part of this Phase I ESA. This report covers APNs 8358-009-006, -009, and -010, comprising the subject site. The owner of these parcels is indicated to be the Pomona Fellowship Church of The Brethren, a non-profit corporation. This preliminary title report does not contain any information which indicates a potential environmental contamination

concern for the subject site.

Environmental Cleanup Liens and Activity and Use Limitations

Under AAI and ASTM E1527-13, a search for environmental cleanup liens and AULs must be conducted, typically by the User. The subject site, whose researched historical use has included agricultural grove, single-family residential, vacant, and/or a church, did not appear in the state and/or federal liens, deed, or activity/use limitation databases in The Environmental Data Resources, Inc. (EDR) Radius Map™ Report with GeoCheck® (Appendix E), suggesting there are no environmental cleanup liens or AULs associated with the subject site.

PHYSICAL SETTING

The physical setting of the subject site researched during this Phase I ESA includes topography, geology, radon potential, and hydrogeology.

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Topography

The topography of the subject site is relatively planar with an overall gentle fall to the west-southwest. Onsite elevations range from approximately 857 to 862 feet above mean seal level.

Regional Geologic Setting

The subject site is located along the northwestern boundary of a broad, coalescing alluvial fan that emanates from the San Gabriel Mountains approximately 4.1 miles to the north. These sediments fill the western portion of a deep structural depression know as the Upper Santa Ana River Valley. Based on extrapolation of the data developed by Fife et al. (1976), the alluvial deposits beneath the subject site are approximately 100 to 200 feet thick, and rest on a basement of intrusive and volcanic rock. The San Jose Hills, approximately 0.5 mile to the north of the subject site, expose these bedrock materials and generally form the boundary between the Santa Ana River Valley and the San Gabriel Valley to the west.

This area of the Santa Ana River Valley is bound by the San Gabriel Mountains, located to the north of the San Jose Hills, on the southwest by the Puente Hills, to the southeast by the Prado Basin, and on the east by the main portion of this valley with the San Bernardino Mountains beyond the San Andreas fault which locally forms the eastern valley boundary.

The geology of the subject site and immediate surrounding region has been mapped, showing the subject site is underlain by young alluvial-fan deposits of Holocene age (Morton and Miller, 2003).

Site Geologic Conditions

As observed during this firm's concurrent PGI, the subject site is underlain by alluvial materials, predominantly sands and silty sands with minor silty sands/sandy silts and varying amounts of cobbles and gravels to a depth of approximately 34 feet bgs.

During our Phase II ESA soil sampling, sandy and gravelly materials, likely fill materials, were observed at one of the four discrete soil sampling locations for arsenic and OCPs up to a depth of approximately 1 foot bgs, situated within a lawn area along the east side of the church building sanctuary, and up to at least 3 feet along the west and south sides of the church building and at the east side of the south end of the church building sanctuary. Other suspected fill materials were observed in various locations in the borings near the buildings up to approximately 5 feet bgs.

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Radon

The United States Geological Survey (USGS) publication, Geologic Radon Potential of EPA Region 9, Open File Report 93-292-I, dated 1993, indicates the potential for radon to exceed the USEPA (United States Environmental Protection Agency) action level of 4.0 picocuries per liter (pCi/L) in Los Angeles County is low. The current USEPA online Radon Zones map shows the average indoor radon concentrations for Los Angeles County predicted to be 2 to 4 pCi/L (USEPA, 2019).

According to the California Department of Public Health database of indoor radon test results by zip code, updated February 2016, the zip code 91768, in which the subject site is located, had three tests conducted with none equal to or greater than 4.0 pCi/L. The maximum test result of these three tests was 1.1 pCi/L (California Department of Public Health, 2016).

Hydrogeology

The subject site is located within the San Gabriel Valley Groundwater Basin, which is situated in eastern Los Angeles County, and includes the water-bearing sediments underlying most of the San Gabriel Valley and includes a portion of the upper Santa Ana Valley that lies in Los Angeles County. This basin is bounded on the north by the Raymond

fault and the contact between Quaternary sediments and consolidated basement rocks of the San Gabriel Mountains. Exposed consolidated rocks of the Repetto, Merced, and Puente Hills bound the basin on the south and west, and the Chino fault and the San Jose fault form the eastern boundary.

The water-bearing materials of the San Gabriel Valley Groundwater Basin are dominated by unconsolidated to semi-consolidated alluvium deposited by streams flowing out of the San Gabriel Mountains. These deposits include Pleistocene and Holocene alluvium and the lower Pleistocene San Pedro Formation. Holocene alluvium generally forms alluvial fans along the San Gabriel Mountains and stream deposits that follow the course of the major streams and rivers across the valley. This young alluvium reaches 100 feet in thickness, and although is typically above the water table, allows effective percolation of surface water in the basin. Upper Pleistocene alluvium deposits form most of the productive water-bearing deposits in this basin. They consist of unsorted, angular to sub-rounded sedimentary deposits ranging from boulder-bearing gravels near the San Gabriel Mountains to sands and silts in the central and western parts of the basin. Thickness varies from 40 feet in the north to about 4,100 feet in the central portion of the basin. The lower Pleistocene San Pedro Formation consists of interbedded marine sand, gravel, and silt. This formation bears fresh water, reaches a maximum thickness of about 2,000 feet, and may grade eastward into continental deposits indistinguishable from the overlying Pleistocene age alluvium.

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Along the eastern boundary of the basin, the Chino and San Jose faults are partial water barriers, separating groundwater flow within the San Gabriel Valley Groundwater Basin and the Chino subbasin of the Upper Santa Ana River Valley Groundwater Basin. A segment of the San Jose fault is located approximately 530 feet north of the subject site. Groundwater levels generally follow topographic slope, with groundwater flow from the edges of the basin toward the center of the basin, then southwestward to exit through the Whittier Narrows which is a structural and topographic low (California Department of Water Resources, 2004).

Groundwater was not encountered in any of our onsite PGI exploratory borings up to 34 feet bgs. In order to estimate the approximate depth to groundwater beneath the subject site, a search was conducted for local water wells on the State of California Department of Water Resources Water Data Library website (California Department of Water Resources, 2019). This search found two wells. State Well No. 01S09W27H001S (Well 28, active residential well), located approximately 0.6 mile to the south-southeast, had records indicating that the depth to groundwater in this local area has ranged from approximately 93 to 111.5 feet bgs during the time period between November 2011 and

May 2019. The second well, with no reported State Well No. (Well 31, inactive residential well), is located approximately 1.2 miles to the west-southwest. This well has groundwater level measurements ranging from approximately 124.5 and 134.5 feet bgs during the time period from May 2011 and November 2018.

According to online information provided by the County of Los Angeles Department of Public Works (CLADPW), a well (State Well No. 01S09W24Q002) located approximately 0.5 mile west-southwest of the subject site has groundwater level measurements ranging from approximately 150 to 299 to feet bgs during the time period from June 1931 to May 2005 (CLADPW, 2019b).

Based on the groundwater well measurements discussed above, and difference in the elevation from these wells and the subject site, groundwater is estimated to be present beneath the subject site at depths well over 100 feet bgs, and likely over 150 feet bgs. Based on the fall in the local ground surface topography, local groundwater flow is estimated in a southwesterly direction.

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HISTORY OF SITE USAGE

To obtain a history of previous site usage, a search was conducted for historical aerial photographs, County Assessor's parcel information, City building records, and Sanborn Fire Insurance and topographic maps. A representative of the current owner of the subject site was interviewed.

Sanborn Fire Insurance Maps

No coverage of Sanborn Fire Insurance Maps was available for the subject site. The Certified Sanborn® Map Report from EDR is provided in Appendix B.

Historical Topographic Maps

Online historical topographic map images of the subject site and surrounding properties were reviewed for the years 1894, 1897, 1898, 1904, 1928, 1954, 1966, 1972, 1981, 1984, 2012, and 2015 (National Environmental Title Research, LLC, 2019 and United States Geological Survey, 2019).

The early map images, 1894, 1897, 1898, and 1904, appear to be from essentially the same large scale maps (1:62,500). These map images show the subject site as vacant land along the north side of a road that appears to be roughly coincident with the present

day West Orange Grove Avenue. Along this road, buildings are shown, which likely include mostly residences, some near the subject site. The San Jose Wash is shown over 500 feet north of the subject site. Dense development associated with the downtown area of the City of Pomona is shown approximately 0.3 mile south-southeast of the subject site.

The 1928 map image is from a map at a scale of 1:24,000, which appears to indicate a residential building is located onsite in the southeast portion near the road along West Orange Grove Avenue. Otherwise, the surrounding area is largely the same as shown in the earlier map images.

The 1954 map image is from a map at a scale of 1:24,000, and shows the onsite church building, but the shape is not accurate for the present day, with the west portion and northeast extension within the east portion missing. The subject site and surrounding properties are shown within reddish shading, which indicates dense development without most buildings shown. In the local area are agricultural groves, schools, and numerous buildings which appear to be predominantly residential.

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The 1966, 1972, 1981, and 1984 map images are from maps at a scale of 1:24,000, and show the subject site and surrounding properties largely the same as shown on the 1954 map image. The onsite church building shape is shown essentially as it is at the present day. Increased dense development is shown with expanded reddish shading in the local area, with few groves remaining. The street and cul-de-sac along Casa Hermosa Drive, bordering to the east, and cul-de-sac associated with Ashport Street, bordering to the west of the subject site, are shown.

The map images from 2012 and 2015 are essentially the same, from maps at a scale of 1:24,000. These map images generally do not show structural features, but the infrastructure shown indicates relatively little new development occurred since the 1984 map near the subject site.

Aerial Photograph Review

To obtain a comprehensive history of previous site usage, a search was conducted for available aerial photographs of the site area on file at Continental Aerial Photo, Inc. (CAPI) and digital aerial photographs were provided by EDR. The aerial photographs reviewed were taken of the site and surrounding area in 1928, 1938, 1948, 1953, 1960, 1964, 1965, 1966, 1970, 1971, 1975, 1976, 1977, 1979, 1980, 1981, 1983, 1985, 1986, 1988, 1989, 1990, 1993, 1994, 1995, 1998, 2002, 2005, 2009, 2012, and 2016, the latest photograph available. Copies of the digital aerial photographs, provided by EDR, with the approximate

subject site boundaries and scale indicated, are provided in Appendix C.

The CAPI aerial photographs reviewed consisted of vertical aerial stereographic photograph pairs of varying scales. These photographs were viewed using stereoscopes with magnifications of 2X, and 4X for three-dimensional enhancement. Due to the relatively large photographic scales involved, the analysis and subsequent interpretation of detail from aerial photographs sometimes required a degree of subjective judgement. The EDR digital aerial photographs consisted of non-stereographic, individual photographs at a scale of approximately 1"=500'. The degree of certainty on the interpretation of details depends upon such factors as the scale and the quality of the photograph(s) reviewed. However, an analysis of aerial photographs will reveal the general site history as to the relative use of the land, possible ground disturbance, activities, etc.

A brief summary of the subject site and surrounding conditions during the various times, as reflected in the photographs is given below:

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1. Date: January 1, 1928 (EDR: FAIR), Photo No.: N/A, Approx. Scale: 1"=500'

No stereo coverage was available for the subject site and surrounding properties. This earliest photograph of the subject site and surrounding local area shows the majority of the subject site includes the approximate lower half of an agricultural grove. The present day West Orange Grove Avenue borders to the south/southeast, and based on the brightness shown along ths road, may be dirt or concrete. A smaller portion of the onsite grove in the southeast portion, along West Orange Grove Avenue, appears to be cleared, possibly in preparation for the present day single-family residence at 861 West Orange Grove Avenue. The adjacent properties to the east and west have groves as well. There appears to be a single-family residence within the grove to the west. Across West Orange Grove Avenue to the southwest, south, and southeast, are a grove, remnants of or smaller groves, vacant land, and single-family residences.

The surrounding area includes agricultural groves, dry farm land, vacant land, rural residences and associated buildings, and some dense residential development.

2. Date: May 24, 1938 (EDR: USDA), Photo No.: N/A, Approx. Scale: 1"=500'

No stereo coverage was available for the subject site and surrounding properties. The two present day single-family residences in the southeast portion of the subject site, addressed 861 and 863 Orange Grove Avenue, are evident. Associated with these residences is one

or more mature trees, around which appears to be a concrete drive, possibly partially coincident with the present day asphalt drive off of West Orange Grove Avenue. There are trees missing from the onsite grove, which may be in decline. The offsite grove adjacent to the east has been removed, and may be under dryland farming. The offsite grove to the west appears to be in a similar condition as that of the onsite grove. Some agricultural grove tree removal has taken place across West Orange Grove Avenue to the south and southwest, as well as in the surrounding local area. West Orange Grove Avenue is now evidently an asphalt-paved, 2-lane road.

3. Date: July 10, 1948 (EDR: USGS), Photo No.: N/A, Approx. Scale: 1"=500'

No stereo coverage was available for the subject site and surrounding properties. Though it appears the onsite grove condition had been improved, an area including parts of the central and south portions of the subject site were cleared, and may have been under grading for construction of the original portion of the onsite, present day church building. Along the east/northeast side of the southeast portion of the subject site are two rows of younger trees, possibly fruit trees of some type. These rows of trees, as very young trees, may have been shown in the previous photograph from 1938. Single-family residential development has begun on the adjacent property to the east. Some grove trees have been removed from the southerly end of the adjacent property to the west, which now includes what appear to be two or three smaller structures or buildings, including what may be a smaller residence near the west/southwest subject site boundary. Some single-family residences may have been added across West Orange Grove Avenue, but is otherwise largely the same as previously shown.

Increased agricultural grove removal with increased single-family residential development is evident in the local area.

4. Date: January 2, 1953, Photo Nos.: AXJ-9K-147 & -148, Approx. Scale: 1"=1,700'

The original portion of the present day onsite church building has been built, including the central and east portions. The parking lot to the south appears graded, with a straight walkway leading southerly from the south side of the central portion of the church building. Two rows of trees from the former onsite grove, most of which has been removed, remain along the west/southwest side of the subject site, extending from the west end of the church building down to near West Orange Grove Avenue. There appears to be a mature tree, two or three remnant grove trees, other vegetation, or an area with wet soil near the north side of the subject site, just west-southwest of the northeast corner. Along the

east/northeast side of the southeast portion of the subject site, the two rows of younger trees previously shown may be absent or largely removed. The offsite alleyway to the north and street (Casa Hermosa Drive) and cul-de-sac to the east appear to be under grading. The offsite former grove adjacent to the east continues to undergo residential development. The offsite grove adjacent to the west has been largely removed, with the residences apparently remaining behind, now among a single-family residential tract development. The offsite north portion of the grove associated with the onsite grove has been largely removed, and is under single-family residential development.

These CAPI aerial photographs show more of the surrounding region than the EDR digital aerial photographs, and include commercial and industrial developments farther away from the subject site, including the Pomona Fairplex.

5. Date: February 11, 1953 (EDR: USDA), Photo No.: N/A, Approx. Scale: 1"=500'

No stereo coverage was available for the subject site and surrounding properties. The subject site and surrounding local area are shown essentially the same as in the CAPI 1953 aerial photographs.

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6. Date: March 29, 1960, Photo Nos.: 311-1-68-7, -8, & -9, Approx. Scale: 1"=1,000'

The subject site and surrounding properties are largely the same as at present day. The west portion/wing of the present day onsite church has been added, as has the asphalt-paved parking lot, which extends from the south side up into the northeast portion of the subject site. The northwest portion of the subject site remained vacant and undeveloped. The surrounding residential development is essentially the same as the present day, except for a vacant lot on the south side of West Orange Grove Avenue, just west of the subject site. West Orange Grove Avenue has been widened and improved, and appears to be a 3-lane road as at the present day, including a middle turn lane.

Residential development in the region has replaced most of the former agricultural groves and land.

7. Date: July 28, 1964 (EDR: USGS), Photo No.: N/A, Approx. Scale: 1"=500'

No stereo coverage was available for the subject site and surrounding properties. The subject site and surrounding properties are largely the same as previously shown in the CAPI 1960 aerial photographs. Around 250 feet west of the subject site, two

rectangular residential buildings have been added, likely multi-unit buildings.

8. Date: May 8, 1965, Photo Nos.: 65200-162 & -163, Approx. Scale: 1"=1,700'

The subject site and surrounding properties are essentially the same as previously shown in the EDR 1964 digital aerial photograph.

9. Date: April 16, 1966 (EDR: USGS), Photo No.: N/A, Approx. Scale: 1"=500'

No stereo coverage was available for the subject site and surrounding properties. The subject site and surrounding properties are essentially the same as previously shown in the CAPI 1965 aerial photographs.

10. Date: January 30, 1970, Photo Nos.: 60-2-42 & -43, Approx. Scale: 1"=3,900'

The subject site and surrounding properties are largely the same as previously shown in the EDR 1966 digital aerial photograph. However, it appears the asphalt parking lot in the northeast portion of the subject site has been removed, likely to be replaced.

11. Date: March 3, 1971, Photo Nos.: 71000-79 & -80, Approx. Scale: 1"=2,100'

The subject site and surrounding properties are essentially the same as shown in the previous CAPI photographs.

12. Date: August 1, 1975 (EDR: USGS), Photo No.: N/A, Approx. Scale: 1"=500'

No stereo coverage was available for the subject site and surrounding properties. The subject site and surrounding properties are largely the same as previously shown in the CAPI 1971 aerial photographs. However, this 1975 EDR digital photograph is infrared and of relatively poor quality. The asphalt parking lot in the northeast portion of the subject site may have been replaced. A grass area has been added on the north side of the central and west portions of the church building, with what appears to be a square concrete slab in the southeast corner. Smaller white objects appear to be present, which may include vehicles and/or small structures like sheds.

13. Date: October 24, 1975, Photo Nos.: 75000-119 & -120, Approx. Scale: 1"=2,000'

The subject site and surrounding properties are essentially the same as shown in the EDR 1975 digital infrared aerial photograph.

14. Date: November 7, 1976, Photo Nos.: 76162-116 & -117, Approx. Scale: 1"=2,100'

The subject site and surrounding properties are essentially the same as shown in the previous CAPI photographs.

15. Date: Apr. 25, 1977 (EDR: Brewster Pac.), Photo No.: N/A, Approx. Scale: 1"=500'

No stereo coverage was available for the subject site and surrounding properties. The subject site and surrounding properties are essentially the same as previously shown in the CAPI 1976 aerial photographs.

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16. Date: May 12, 1979, Photo Nos.: FC-LA 6-5, -6, & -7, Approx. Scale: 1"=3,000'

The subject site and surrounding properties are essentially the same as shown in the EDR 1977 digital aerial photograph. It appears the present day detached garage has been built just north of the smaller single-family residence at 863 West Orange Grove Avenue in the southeast portion of the subject site.

17. Date: January 1980, Photo Nos.: SBD 15-3 & -5, Approx. Scale: 1"=4,900'

The subject site and surrounding properties are essentially the same as shown in the previous CAPI photographs.

18. Date: Feb. 17, 1981 (EDR: Brewster Pac.), Photo No.: N/A, Approx. Scale: 1"=500'

No stereo coverage was available for the subject site and surrounding properties. The subject site and surrounding properties are essentially the same as previously shown in the CAPI 1980 aerial photographs. However, numerous cars are evident at the subject site.

19. Date: January 2, 1983, Photo Nos.: 83001- 123 & -124, Approx. Scale: 1"=2,100'

The subject site and surrounding properties are essentially the same as shown in the EDR 1981 digital aerial photograph. Over two dozen cars are present onsite.

20. Date: February 24, 1985, Photo Nos.: 85048-603 & -605, Approx. Scale: 1"=500'

No stereo coverage was available for the subject site and surrounding properties. The subject site and surrounding properties are largely the same as shown in the previous CAPI aerial photographs. Around three dozen cars and two truck trailers are parked onsite. Due to the scale of the photographs, it appears evident that the largest current day shed is present just east-northeast of the detached garage in the residential area in the southeast portion of the subject site. The vacant property on the south side of West Orange Grove Avenue, just west of the subject site, has been developed with single-family residences.

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21. Date: December 30, 1986, Photo Nos.: F 64 & F 65, Approx. Scale: 1"=2,900'

The subject site and surrounding properties are essentially the same as shown in the previous CAPI aerial photographs. No cars or truck trailers are evident at the subject site.

22. Date: July 7, 1988, Photo Nos.: 19110 & 19111, Approx. Scale: 1"=2,100'

The subject site and surrounding properties are essentially the same as shown in the previous CAPI aerial photographs.

23. Date: August 3, 1989 (EDR: USDA), Photo No.: N/A, Approx. Scale: 1"=500'

No stereo coverage was available for the subject site and surrounding properties. The subject site and surrounding properties are essentially the same as previously shown in the CAPI 1988 aerial photographs. However, several cars appear to be present at the subject site.

24. Date: June 12, 1990, Photo Nos.: C83-10-26 & -27, Approx. Scale: 1"=2,800'

The subject site and surrounding properties are essentially the same as shown in the EDR 1989 digital aerial photograph. The onsite asphalt parking lots and drive areas appear to have been recently slurry sealed, based on the dark (black) color evident.

25. Date: May 13, 1993, Photo Nos.: C90-20-56 & -57, Approx. Scale: 1"=2,000'

The subject site and surrounding properties are essentially the same as shown in the previous CAPI aerial photographs. No cars are present onsite and the second current day shed appears to be present in the residential area in the southeast portion of the subject site.

26. Date: June 1, 1994 (EDR: USGS/DOQQ), Photo No.: N/A, Approx. Scale: 1"=500'

No stereo coverage was available for the subject site and surrounding properties. The subject site and surrounding properties are essentially the same as previously shown in the CAPI 1993 aerial photographs. However, no cars appear to be present at the subject site.

27. Date: July 11, 1995, Photo Nos.: C115-27-127 & -128, Approx. Scale: 1"=2,100'

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The subject site and surrounding properties are essentially the same as shown in the EDR 1994 digital aerial photograph.

28. Date: Oct. 18, 1998, Photo Nos.: C128-27-105 & -106, Approx. Scale: 1"=2,000'

The subject site and surrounding properties are essentially the same as shown in the previous CAPI aerial photographs.

29. Date: June 5, 2002 (EDR: USDA), Photo No.: N/A, Approx. Scale: 1"=500'

No stereo coverage was available for the subject site and surrounding properties. The subject site and surrounding properties are essentially the same as previously shown in the CAPI 1998 aerial photographs. The onsite asphalt parking lots and drive areas have been apparently slurry sealed, based on the dark (black) color evident.

30. Date: 2005 (EDR: USDA/NAIP), Photo No.: N/A, Scale 1"=500'

No stereo coverage was available for the subject site and surrounding properties. The subject site and surrounding properties are essentially the same as shown in the previous EDR digital aerial photograph. However, the present day cellular tower at the subject site, adorned to look like a tree, appears to have been erected. It is difficult to discern the enclosure associated with this tower. The sandy play area north of the

northwest extension of the onsite church building is evident.

31. Date: 2009 (EDR: USDA/NAIP), Photo No.: N/A, Scale 1"=500'

No stereo coverage was available for the subject site and surrounding properties. The subject site and surrounding properties are essentially the same as shown in the previous EDR digital aerial photograph. The present day enclosures north of the northeast extension of the onsite church building are evident, including three associated with the cellular tower. The asphalt parking lot and drive areas have been apparently slurry sealed, based on the dark (black) color.

32. Date: 2012 (EDR: USDA/NAIP), Photo No.: N/A, Scale 1"=500'

No stereo coverage was available for the subject site and surrounding properties. The subject site and surrounding properties are essentially the same as shown in the previous EDR digital aerial photograph. There appear to be three or four cars present onsite.

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33. Date: 2016 (EDR: USDA/NAIP), Photo No.: N/A, Scale 1"=500'

No stereo coverage was available for the subject site and surrounding properties. The subject site and surrounding properties are essentially the same as shown in the previous EDR digital aerial photograph. The asphalt parking lot and drive areas have been apparently slurry sealed, based on the dark (black) color. The present day onsite storage unit for emergency supplies is evident north of the detached garage in the residential area, and the soccer field in the northwest portion of the subject site has been constructed.

Assessor's Parcel Information

The subject site is comprised of the three APNs 8358-009-006, -009, and -010, a total of approximately 3.6 acres. According to online Los Angeles County Assessor's property information, APN 8358-009-006 has an associated address at 875 West Orange Grove Avenue, with a building square footage at 19,604 square feet, built in 1949 (effective year 1956). This parcel is listed with 136,103 square feet of area or approximately 3.12 acres. The uses shown for this parcel include church (single-story) and wireless communication tower. Assessor's Parcel Number 8358-009-009 has an associated address at 861 West Orange Grove Avenue, with two buildings shown, one a 2-bedroom/2-bath residence at 1,551 square feet, built in 1930, and the second a 1-bedroom/1-bath residence at

841 square feet, built in 1932. This parcel is listed with 12,216 square feet of area or approximately 0.28 acre. The use shown for this parcel is residential (double, duplex, or two units), 4 stories or less. Assessor's Parcel Number 8358-009-010 has no associated address, no buildings indicated, and is listed with 9,898 square feet of area or approximately 0.23 acre. The use shown for this parcel is vacant land (County of Los Angeles Assessor, 2019).

A copy of the Assessor's Parcel Map is presented on Figure 3 with the approximate boundaries of the subject site.

City Building Records

Building records, including permits, were reviewed at the City of Pomona Building and Safety Division. Building records were filed under 861 ad 875 West Orange Grove Avenue. However, within the filed records under 875 West Orange Grove Avenue were records for 861, 863, 891, and 875 West Orange Grove Avenue.

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Records for 861 West Orange Grove Avenue ranged from 1950 to 2014. These records included permits related to residential construction, including roofing, electrical, remodeling, plumbing, heating and air conditioning, asphalt-paved driveway, addition, pest damage replacement, and sewer connection. The permit for the original construction of the present day residence at 861 West Orange Grove Avenue was not present within these records. The connection to the City sewer was permitted in 1956. The house number (address) was indicated to be changed to 861 West Orange Grove Avenue in 1950.

Only one record was available under 836 West Orange Grove Avenue, which is an electrical permit from 1963 for residential meter and lighting.

Records for 875 West Orange Grove Avenue are related to the present day church building, detached garage north of the residence at 863 West Orange Grove Avenue, and cellular communication tower and associated equipment. These records range from 1948 to 2015, and include sewer connection, roofing, electrical, plumbing, cellular communication antennas and other equipment and associated development including equipment enclosure, classroom addition, certificate of occupancy (Eden Mission Church), sanctuary addition, furnaces, wall and monument signs, fire sprinklers, original permit for church building construction, and water heaters. The connection to the City sewer was permitted in 1952.

Records for 891 West Orange Grove Avenue may include the original and earlier permit records for the present day residence at 861 West Orange Grove Avenue. These records, from 1927 to 1950, include a permit for a 5-room dwelling, water heater, gas furnaces, electrical (range and service), and treat and repair termite damage to the dwelling.

Interview

On June 25, 2019, access to onsite buildings and structures was provided by Mr. Gerald Davis, a long time congregation member of the onsite Pomona Fellowship Church of the Brethren. Mr. Davis has been a member of the congregation for about 17 years. Two other church congregations are utilizing the onsite church facilities, including Eden Mission Church, a Korean congregation, and Iglesia de Cristo Sion, a Spanish speaking congregation. Mr. Davis indicated the original portion of the onsite church building was constructed in 1949, with the addition in 1956. He thought the light green-colored roof tiles for the 1956 sanctuary church addition, some of which have fallen off the roof, contain asbestos.

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The larger residence in the onsite residential area, addressed 861 West Orange Grove Avenue, is a parsonage, though it is not currently occupied. The smaller residence at 863 West Orange Grove Avenue is occupied by two gentlemen. Mr. Davis indicated the recreational vehicle (RV) shown within the onsite residential area in the June 8, 2018 Google Earth Pro aerial image is gone. The two sheds and detached garage in the residential area are being used for storage and/or vehicle parking. A ceramic pipe sticking up near the residence at 863 West Orange Grove Avenue was a former bird bath. One of the former pastors built a child's playhouse behind the parsonage with a sandbox underneath.

When asked about the onsite sewer, Mr. Davis believed the subject site is connected to municipal sewer.

Annual household waste collection events are sponsored by the City of Pomona Department of Public Works for large item pickups for residences. These events are conducted in the asphalt-paved parking and drive areas of the subject site. The last event was on April 27, 2019. Bottle water is provided to residents during this event from the onsite church's emergency supplies which are kept in the storage unit just north of the detached garage situated in the west/northwest corner of the residential area of the subject site.

When asked about the cellular communication tower and associated equipment enclosures, Mr. Davis believed the three telecommunication companies that have been onsite included SBA, Sprint, and Verizon, but indicated Sprint was no longer onsite. The west half of the northerly equipment enclosure has been vacated, with communication equipment gone and power panels remaining.

SITE RECONNAISSANCE

Site reconnaissance was performed on June 25 and July 17, 2019. To orient our site reconnaissance, a recent color aerial photograph was obtained for our reference. A copy of the recent color aerial photograph with approximate subject site boundaries is presented on Figure 4.

The subject site is irregular in shape, approximately 3.6 acres, situated along the north/northwest side of West Orange Grove Avenue, and oriented west-southwest to east-northeast and north-northwest to south-southeast. Along the subject site boundaries, except along the south/southeast boundary and West Orange Grove Avenue, are steel chain-link fencing, wooden fencing, and/or concrete block wall. Two constructed gaps in the fencing were observed along the north/northwest boundary, including at the north/northeast corner of the subject site. These gaps allow for people to enter into the subject site. Internal steel chain-link fencing is also present in the residential area and associated with the playground area and soccer field behind the church building. Along the north-northwest to south-southeast middle of the subject site is an asphalt-paved drive with parking spaces which connects parking lots in the northeasterly and southwesterly portions of the site. Associated with these parking lots are planter or dirt areas that include grass, weeds, bushes, and ornamental plants. The dirt area which is situated adjacent to the west-southwest of the offsite cul-de-sac for Casa Hermosa Drive includes a trash dumpster and a storage unit (includes church emergency supplies, including water).

A residential area is located in the southeasterly portion of the subject site, with the remainder primarily associated with the onsite church building. A cellular communication tower and two associated equipment enclosures are located in the north central portion of the subject site.

Three concrete drive ramp entrances are situated along the south-southeast side of the subject site along West Orange Grove Avenue, including two associated with the southerly church parking lot and one associated with an asphalt drive in the residential area.

The residential area of the subject site, located in the far southeasterly portion, includes a single-family residence at 861 West Orange Grove Avenue, the larger residence and parsonage, another single-family residence at 863 West Orange Grove Avenue, the smaller residence, a detached garage, and two metal sheds. A child's playhouse and sandbox are located along the northerly side of the parsonage. Among the residences and detached garage are concrete flatwork, including walks. A ceramic pipe sticking up near the residence at 863 West Orange Grove Avenue was a former bird bath, and has sediment in it. There is a small basement beneath the west/northwest portion of the parsonage. A small, square, metal drain grate is located within the floor of this basement, and appears to drain into the underlying soil. Stored inside this small basement, the detached garage, and two metal sheds are various items, including containers up to 5 gallons of paint, gasoline, paint thinner, lacquer thinner, fertilizer, insecticide, and herbicide. The largest quantity of hazardous materials onsite is paint. Vegetation in the residential area includes grasses, weeds, trees, bushes, and ornamental plants.

The onsite church building, over 19,000 square feet, is a roughly "H"-shaped building, with a main entrance at the west end of the southerly side of the central portion of the building. The 1956 addition, primarily the church sanctuary, is the southwesterly extension of the church building, evidenced by the light green-tiled roof. The church building is situated in the west central and southwesterly portions of the subject site. This building includes bathrooms, classrooms, chapel, offices, storage rooms, kitchen, fellowship hall, meeting room, library, and sanctuary. A small basement is located beneath the southerly end of the sanctuary, and includes furnace equipment, chairs, sound equipment, metal racks, and some of the fallen light green roof tiles from the sanctuary. Planter or grass areas are located around the church building, with mature trees, bushes, and ornamental plants present. A circular water fountain surrounded by roses is located southwest of the south end of the fellowship hall, within the southeasterly extension of the church building. The main concrete walk to the main and secondary entrance on the south side of the central portion of the church building is located southwest, west, and northwest of the water fountain. Other concrete walks are present along or near the church building. Covered patio areas with entrances into the church building are present along the westerly side.

A sandy, roughly square-shaped play area with swings and other playground equipment are located along the north-northwest side of the northwesterly extension of the church building. Easterly from this playground area is a grass area, concrete walks, and picnic tables. Within the grass area is a circular concrete slab with a steel post that may be used for tether ball.

Beyond the church building and playground and grass area is a soccer field in a fenced area. The field is covered in artificial turf, with the surrounding ground dirt surface largely covered in a decomposed granitic material. At the northwesterly end of the soccer field, behind the goal posts, is a high net supported on posts, likely to prevent a soccer ball from being kicked outside the fenced area for the soccer field. A trash can and bleachers are also located within the fenced soccer field area.

Vacant areas are present south and east of the soccer field area, much of which is covered in gravel. Just east of the soccer field, adjacent to this vacant area, are two locked, concrete block walled enclosures. We did not have access into these locked enclosures. The larger of these two enclosures is "L"-shaped, adjacent to the north-northwest of the northeasterly extension of the church building and an associated enclosure, and includes a cellular communication tower with antennas, a building, and associated equipment. Concrete slabs are situated in this enclosure to support equipment, and other than this and the building is gravel covered. Signs on this larger enclosure indicate SBA and Nextel are two telecommunication companies that have been associated with it. The smaller concrete block enclosure, located just north/northwest of the larger one, is a split enclosure, with the slightly smaller westerly portion vacated except for electrical panels and the slightly larger easterly portion with equipment, including cellular and power. This slightly larger easterly portion of the enclosure belongs to Verizon Wireless, and includes lead acid batteries and a diesel-powered, emergency electric backup generator in concrete secondary containment. No signs of chemical leakage were noted at the two block walled enclosures.

Minor amounts of trash and debris are present onsite, including glass, plastic, metal, and wood.

Utilities present at the subject site include municipal water and sewer, electric, natural gas, and telecommunications. A utility pole along the west/southwest side of the subject site includes a pole-mounted, electrical transformer with no signs of leakage. Electric lines associated with this utility pole lead into locked, wooden cabinets along the west side of the church building that include electrical equipment. Along West Orange Grove Avenue, electric, natural gas, sewer, water, telecommunications, and street lighting utilities were observed.

No stained soils or chemical odor were noted onsite. Minor oil staining is present on the asphalt in the parking areas and diesel-stained concrete was observed in the secondary containment for the emergency electric backup generator in the eastern of the northerly cellular communication equipment enclosures. A hardened material, possibly glue or spray insulating foam, was observed in a grass area along the west/southwest side of the

southerly end of the sanctuary of the church building.

Adjoining Properties

During our reconnaissance of the subject site, observations of the adjacent or adjoining properties were made. The subject site is bordered to the south/southeast by West Orange Grove Avenue, an improved, asphalt-paved, 3-lane road, including two traffic lanes and a middle turn lane. The north part of the east/northeast side of the subject site is bordered by the southerly terminus of Casa Hermosa Drive which includes a cul-de-sac. The easterly terminus for Ashport Street, a cul-de-sac, is adjacent to the west of the north portion of the subject site. The subject site is surrounded in all directions by single- or multi-family residences.

Observations of the properties adjoining the subject site did not reveal any potential aboveground sources of contamination which would impact the subject site.

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Color photographs of the subject site and adjoining properties are provided in Appendix D.

REGULATORY AGENCY RECORDS REVIEW

For records relating to environmental compliance, hazardous materials handling, hazardous waste generation, underground storage tanks, and site cleanups within the County of Los Angeles, multiple agencies may be involved. These agencies include the California Regional Water Quality Control Board, Los Angeles Region (CRWQCB-LAR), County of Los Angeles Department of Public Works, Environmental Programs Division, and County of Los Angeles Fire Department, Health Hazardous Materials Division. Online web sites associated with these agencies were searched for records they may have for the subject site. Online South Coast Air Quality Management District and California Department of Toxic Substances Control records were also researched.

CLADPW-EPD

On July 6, 2019, an online search of the County of Los Angeles Department of Public Works, Environmental Programs Division (CLADPW-EPD) records was made (County of Los Angeles Department of Public Works, Environmental Programs Division, 2019a). These records include industrial waste, underground storage tanks, and storm water. No records were found for the subject site.

CLAFD-HHMD

On June 18 and 26, 2019, online requests for records search were submitted to the County of Los Angeles Fire Department, Health Hazardous Materials Division (CLAFD-HHMD) for the subject site addresses at 861, 863, and 875 West Orange Grove Avenue (CLAFD-HMMD, 2019a). In emails on June 18 and 26, 2019, the CLAFD-HHMD indicated that no records were found for 861 and 863 West Orange Grove Avenue. On June 21, 2019, an email was received that indicated records for 875 West Orange Grove Avenue were available through an online link (CLAFD-HHMD, 2019b). Only one record was found through this link, a 2-page inspection report from July 1, 2015, which indicated no violations were observed. This inspection report lists T-Mobile West Corporation at 875 3/4 West Orange Grove Avenue #B. The nature of the business was indicated to be telecommunication, an unmanned cell site with two exterior cabinets and antennas and one exterior cabinet decommissioned (batteries removed). Four 2-gallon lead acid batteries were noted as the only hazardous materials present. The observed hazardous materials were stated to be at quantities below program element thresholds, and the site was inactivated for the hazardous materials program element.

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California Regional Water Quality Control Board - Los Angeles Region

Records for the subject site and adjoining properties were searched using the California State Water Resources Control Board-maintained online Geotracker database, which includes CRWQCB-LAR records for: 1) cleanup sites, including leaking underground storage tank (LUST) sites, cleanup program sites, military cleanup sites, and California Department of Toxic Substances Control (DTSC) cleanup sites; 2) permitted facilities, including waste discharge requirements sites, permitted USTs, DTSC hazardous waste sites, land disposal sites, irrigated lands regulatory program sites, and oil/gas sites; and 3) other sites, including project sites, non-case information sites, sampling points - public, and field points. No records were found that pertain to the subject site or adjoining properties. The closest listed sites to the subject site are greater than 0.33 mile away (California State Water Resources Control Board, 2019).

South Coast Air Quality Management District

Online SCAQMD records (Facility INformation Detail [FIND] database) were searched for records available for the subject site and adjoining properties (SCAQMD, 2019). No records were found under this search for the subject site or nearby addresses along West Orange Grove Avenue.

California Department of Toxic Substances Control

The online California DTSC Hazardous Waste Tracking System (HWTS) was searched for records available for the subject site. Records were found under 875 West Orange Grove Avenue (California Department of Toxic Substances Control, 2019a). The City of Pomona Public Works Department is listed under two EPA identification numbers, one with no associated manifests. Hazardous waste manifest listings for the City of Pomona Public Works Department include approximately 3.74 tons of waste oil and mixed oil and approximately 15.21 tons of household wastes, generated in 2004 and 2011 through 2018. These wastes are associated with community cleanup events that receive bulky items, metal items, electronic wastes, and used oil and filters (City of Pomona, 2019).

ENVIRONMENTAL DATABASE REVIEW

EDR was contacted to provide an environmental database search for the subject site. The database search provides information regarding landfills, USTs, hazardous waste generators, etc., on the site and surrounding properties in accordance with ASTM Standards and AAI. Over a dozen mapped sites, including the subject site, were found in EDR's search of available government records within the respective search radii. In their database report, EDR refers to the "target property", which is the subject site for this Phase I ESA. A copy of the EDR database report, which provides a complete list of the federal, state, tribal, local, and proprietary records searched, is provided in Appendix E.

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ENVIROSTOR

The California DTSC Site Mitigation and Brownfields Reuse Program's ENVIROSTOR database identifies sites that have known contamination or sites for which there may be reasons to investigate further. There are seven sites listed in the ENVIROSTOR database within 1 mile of the subject site. The closest listed site is Dudley-Murchison School at 1325-1391 Jacqueline Drive/1336-1560 Murchison Avenue, over 0.5 mile west-northwest of the subject site. This school investigation site is listed with a "No Further Action" status as of April 23, 2003, and had been used for agricultural row crops in the past. Activities from 2000 to 2003 include a environmental oversight agreement, public participation, site inspections, and Preliminary Endangerment Assessment Report. Based on the distance from the subject site and regulatory oversight, no adverse environmental impact to the subject site from the listed ENVIROSTOR sites is anticipated.

LUST

The State Water Resource Control Board (SWRCB) maintains a list of all leaking underground storage tanks (LUST) within the state. According to the SWRCB LUST database, there are seven sites (one listed twice) within 0.5 mile of the subject site. All of the listed LUST sites are located over 0.33 mile from the subject site. All but one of the LUST sites have closed regulatory cases. These LUST sites should have no adverse environmental impact to the subject site, based on the closed regulatory case, regulatory oversight, and/or distance from the subject site.

RCRA NonGen/NLR

RCRAInfo is EPA's comprehensive information system that includes selective information on sites which generate, transport, store, treat, and/or dispose of hazardous waste as defined by RCRA (Resource Conservation and Recovery Act). Non-Generators do not presently generate hazardous waste. One site, Luis Reyes at 794 Altura Court, approximately 0.2 mile north of the subject site, is listed in this database. This site is listed as a transporter of hazardous waste with no reported violations. Based on the distance away and lack of reported violations, the listed RCRA NonGen/NLR site should have no adverse environmental impact to the subject site.

FINDS

The Facility Index System (FINDS) database 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). The subject site, under City of Pomona Public Works and Verizon Wireless: Hamilton at 875 West Orange Grove Avenue, is listed in this database with a references to hyperlinks for EDR Site Reports™, which include references to a USEPA website. For the City of Pomona Public Works listing, the USEPA website includes facility information that refers to RCRA, with environmental interest as transporter. For the Verizon Wireless: Hamilton listing, the USEPA website includes facility information that indicates the subject site is a RMP (Risk Management Plan) Reporter, likely due to the lead acid batteries that have been stored onsite. It is not anticipated that the subject site being listed

in the FINDS database will have an adverse environmental impact, based on the nature of the City of Pomona Public Works listing which is likely associated with annual community cleanup events, and the limited storage of lead acid batteries onsite, associated with cellular communication equipment.

The EDR Site Reports™ are provided within Appendix E.

ECHO

This USEPA database, Enforcement & Compliance History Information (ECHO), provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide. The subject site, under City of Pomona Public Works at 875 West Orange Grove Avenue, is listed in the ECHO database. ECHO database information, via a website hyperlink, includes enforcement and compliance under RCRA. The enforcement and compliance information available only goes back 5 years. No violations, enforcement, or compliance actions are shown. Based on the ECHO database information, no adverse environmental impact to the subject site is anticipated.

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Cortese

The Cortese list is for sites designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). One site, LA County Fire Station #182 at 1059 White Avenue N, is listed in this database over 0.33 mile east of the subject site. This site, also listed under the LUST database, has a LUST regulatory case that is open and active. This Cortese site should have no adverse environmental impact to the subject site, based on the regulatory oversight and distance from the subject site.

HAZNET

This database includes facility and manifest data, which is extracted from the copies of hazardous waste manifests received each year by the DTSC. The subject site, under City of Pomona Public Works at 875 West Orange Grove Avenue, is listed in the HAZNET database. The database listing includes a hyperlink to an EDR Site Report™ with additional hazardous waste manifest listings. The subject site is listed with hazardous waste generation from 2004 and 2011 through 2017, including approximately 9.79 tons of household waste and approximately 3.74 tons of waste oil and mixed oil. Based on the nature of the generated hazardous wastes, likely associated with annual community cleanup events, the subject site listing in the HAZNET database is not anticipated to have

an adverse environmental impact to the subject site.

The EDR Site Report™ is provided within Appendix E.

HIST CORTESE

The historical Cortese (HIST CORTESE) list, no longer updated, is a historical listing from the State Water Resource Control Board (LUST database), the Integrated Waste Board (SWF/LS database), and the Department of Toxic Substances Control (CALSITES database). Two sites are listed in the HIST CORTESE database over 0.33 mile south-southeast of the subject site, including 1 Day Paint & Body Center at 805 Holt Avenue W and Rapid Station #12 at 790 Holt Avenue W. These sites are also listed in the LUST database with closed regulatory cases. These HIST CORTESE sites should have no adverse environmental impact to the subject site, based on the closed regulatory case and distance from the subject site.

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HWT

The HWT database is a listing of hazardous waste transporters (HWT). 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. One site, Alarcon Environmental Services at 632 Burdick Drive, over 0.2 mile east-northeast of the subject site, is listed in the HWT database. Little information is provided in the HWT listing, which includes a registration number, phone number, and expiration date of June 30, 2019. Based on the distance from the subject site and regulatory oversight, the HWT site is not anticipated to have an adverse environmental impact to the subject site.

EDR MGP

This EDR proprietary Manufactured Gas Plant Database (EDR MGP) 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 1800s to 1950s 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. One site, So Cal Gas/Pomona MGP at Commercial Avenue and Huntington Street, over 0.6 mile south-southeast of the subject site, is listed in the EDR MGP database. The database listing indicates the site operated from 1887 to 1917, was a coal gas and oil gas plant, and was believed to be converted to a natural gas storage and distribution facility in 1917. This site remained in operation as a natural gas storage and distribution facility until 1955, when the City of Pomona utilized it as a corporate yard and operating base, continuing to the present day. A voluntary cleanup agreement was indicated to be signed, but no further information is provided. The listed EDR MGP site should have no adverse environmental impact to the subject site, based on regulatory oversight and distance from the subject site.

Orphan Summary

The Orphan Summary within the EDR database report, which is a list of all sites whose location is not readily identified (mapped), and may be near the subject site, was reviewed. There are no sites listed in the Orphan Summary on or adjoining the subject site.

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Division of Oil, Gas, and Geothermal Resources

The California Division of Oil, Gas, and Geothermal Resources (DOGGR) maintains a list of all producing and abandoned oil and gas wells within the State of California. We reviewed the online DOGGR Well Finder, which indicates no abandoned or producing gas and/or oil wells have been located within one mile of the subject site (DOGGR, 2019).

VAPOR ENCROACHMENT EVALUATION

As part of this Phase I ESA, a VES was conducted to determine if a vapor encroachment condition (VEC) exists, based on the information obtained during the Phase I ESA. A VEC is the presence or likely presence of chemicals of concern (COC) vapors in the subsurface of the target property caused by the release of vapors from contaminated soil or groundwater either on or near the target property (i.e., subject site).

Vapor Encroachment Screen

A VES, comprised of Tier 1 screening, was conducted by this firm for the subject site. The VES was conducted in accordance with the Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions, American Society for Testing and Materials E2600-15. Although not required to satisfy the requirements of the Phase I

ESA under ASTM E1527-13, ASTM E2600-15 was chosen as a methodology to evaluate potential contaminant vapor concerns at or adjoining the subject site.

The subject site is currently under church and residential uses, and historically included church, residential, vacant land, and/or agricultural grove uses. The subject site and/or surrounding area are anticipated to be underlain by interbedded sands, silty sands, and sandy silts, with varying amounts of gravels and cobbles present.

Based on the local geology and hydrogeology, groundwater beneath the subject site, anticipated to be present at depths well over 100 feet bgs, is not considered to be a potential source of vapor into the subject site.

Based on the results of Tier 1 screening, utilizing The EDR Radius Map™ Report with GeoCheck® and research of the history of the subject site and adjoining properties, the subject site, listed in the FINDS, HAZNET, ECHO, and RCRA NonGen/NLR databases, is the only site within 0.33 mile with current and/or former potential sources of soil vapor intrusion or encroachment, such as leaking (current or former) USTs, dry cleaners, etc. However, the subject site is only listed in these databases for lead acid batteries and community cleanup events where City residents drop off waste oil and household waste, including electronic waste. Therefore, these wastes are not sources of impacts to the subsurface soil vapor at the subject site. Based on the results of the VES, Tier 1 screening, a VEC at the subject site can be ruled out.

DATA GAPS

Under AAI and ASTM E1527-13, data gaps that remain after the conduct of all required activities must be identified. The source of information consulted to address the data gaps should be identified, and the significance of the data gaps with respect to our ability to identify conditions indicative of releases or threatened release of hazardous substances on, at, in, or to the property should be addressed.

There are no significant data gaps remaining after our conduct of AAI and ASTM E1527-13.

PHASE II ESA

Based on the past agricultural usage of the subject site as agricultural grove from at least 1928 until the late 1940s, and the presence of lead-based paint on exterior building

surfaces, a Phase II ESA was performed to assess the potential impacts to onsite soils from organochlorine pesticides, total arsenic, and total lead. In order to evaluate these potential onsite soil impacts, near surface and/or shallow soil sampling was performed.

Initial Soil Sampling and Analysis

On June 25, 2019, LOR personnel used clean hand equipment, either a shovel or hand auger, to excavate small holes to approximately 1 foot bgs.

Four soil samples (SS-1 through SS-4) were collected across the subject site, one from each quadrant. The approximate locations of the four soil samples are shown on a recent color aerial photograph of the subject site, Figure 5.

Soils encountered during soil sample collection appeared to be native, alluvial silty sands, except for the location at SS-2, collected within a small lawn along the east side of the south portion of the church building sanctuary, where a base-like, sandy and gravelly material was encountered, likely fill material. No signs of obvious soil contamination, including odor and staining, were encountered at any of the soil sample locations.

The four soil samples (SS-1 through SS-4) were collected directly into clean, laboratory-supplied 4-ounce glass jars with teflon-lined screw lids. Following sample collection, the jars were labeled with the sample identification/location, and time and date of sampling. The samples were placed on ice and transported under Chain-of-Custody (CoC) to A & R Laboratories, Inc. (ARL), a state-certified hazardous waste testing laboratory, for analysis.

On June 25, 2019, LYEI, subcontracted by this firm, collected fourteen surficial soil samples (S-001 through S-014) from around the edges of the onsite building exteriors where adjacent soil was present. The soil sampling methodology employed by LYEI and sample analysis is documented in the *Summary Report: Lead Soil Evaluation Report*, dated July 5, 2019. This report is provided in Appendix F.

Additional Soil Sampling

Based on the total lead results reported in the LYEI *Summary Report: Lead Soil Evaluation Report* for composite near surface soil samples around the onsite buildings, additional near surface and shallow soil sampling was conducted to assess the lateral and vertical extent of lead-impacted soils near the four buildings. This additional soil sampling included soil boring advancement at thirty-one (31) locations (SB-1 through SB-31). The approximate

locations of the thirty-one (31) soil boring locations are shown on a recent color aerial photograph, Figure 6.

On July 24 through 26, 29, and 30, 2019, Gregg Drilling, LLC personnel were onsite to hand auger ninety-three (93) soil borings for soil sample collection under LOR oversight. At each of the thirty-one (31) soil boring locations, three (3) soil borings were advanced up to 5 feet bgs. The closest soil boring, generally 1 foot away, to the building or associated concrete walk, roof drain, or brick planter was designated as the "A" boring, with the next closest soil boring, generally 3 feet away, designated as the "B" boring, and the farthest soil boring designated as the "C" boring, generally 5 feet away. So, for example, at the SB-1 location, soil borings SB-1A, SB-1B, and SB-1C were sampled, and the same for the remaining thirty (30) boring locations. The distance of these borings from the buildings or associated features were adjusted as needed for underground utilities, due to refusal on rocks, and/or other limitations, including the presence of concrete walks. The intended sample depths for all soil borings were 0, 1, 3, and 5 feet bgs. Some borings, at depths with numerous rocks, were terminated at approximately 3 to 4.5 feet bgs, and therefore sample collection depths were adjusted accordingly.

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The hand auger equipment was decontaminated prior to sampling and in between borings in a three 5-gallon bucket wash and rinse, with the first bucket containing Citranox® and Liquinox®, followed by two buckets of rinse water. Onsite tap water was utilized for the decontamination wash and rinses.

A total of three hundred and fifty-nine (359) soil samples were collected directly from the end of the hand auger barrel into clean, laboratory-supplied 4-ounce glass jars with teflon-lined screw lids. Following sample collection, the jars were labeled with the sample identification (including location and depth), and time and date of sampling. The samples were transported under CoC to ARL for analysis.

Laboratory Analytical Results

The four soil samples (SS-1 through SS-4) were analyzed for OCPs using United States Environmental Protection Agency (USEPA) Method 8081A and total arsenic using USEPA Method 6020. The fourteen soil samples (S-001 through S-014) collected by LYEI were analyzed for total lead using USEPA Method 7420. The analytical results for these eighteen (18) soil samples is summarized in Table 1.

None of the four soil samples (SS-1 through SS-4) analyzed for OCPs had reportable concentrations.

The four soil samples (SS-1 through SS-4) analyzed for total arsenic had reportable concentrations ranging from 1.61 to 4.67 milligrams per kilogram (mg/kg).

All of the fourteen soil samples (S-001 through S-014) collected by LYEI had reportable concentrations of total lead, ranging from 12 to 954 mg/kg.

The three hundred and fifty-nine (359) soil samples collected from three soil borings at thirty-one (31) locations (SB-1 through SB-31) were analyzed for total lead using USEPA Method 6010B. The analytical results for these soil samples are presented in Table 2.

The reported concentrations of total lead ranged from non-detect at 0.500 mg/kg to 193 mg/kg in the three hundred and fifty-nine (359) soil samples.

The analytical results for the fourteen soil samples (S-001 through S-014) collected by LYEI are present in their Summary Report, provided in Appendix F. The laboratory analytical report for the four discrete soil samples (SS-1 through SS-4) collected by this firm is provided in Appendix G. The laboratory analytical reports for the soil samples collected from three soil borings at thirty-one (31) locations (SB-1 through SB-31) are provided in Appendix H.

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Investigative-Derived Wastes

Investigative-derived wastes (IDW) included non-hazardous soil and water, which were containerized onsite, prior to offsite transport for recycling or disposal. Decontamination wash and rinse water, generated during soil sampling at the thirty-one (31) locations (SB-1 through SB-31) with three soil borings, were placed in labeled, Department of Transportation (DOT)-approved steel 55-gallon drums, and temporarily stored onsite, pending offsite transport. A total of one (1) drum, approximately two-thirds full with waste water was generated. Soil cuttings generated during hand auger soil boring advancement were also placed in labeled, DOT-approved steel 55-gallon drums and similarly stored temporarily onsite. A total of six (6) drums with waste soil was generated.

A water sample was collected from the one drum and composite soil sample was collected from the six drums for analysis by ARL for waste characterization. These samples were analyzed for gasoline-, diesel-, and oil-range petroleum hydrocarbons using USEPA Methods 8015B and/or 8015M, California Title 22 total heavy metals using USEPA Methods 6010B, 7470A, and/or 7471A, and volatile organic compounds using USEPA Method 8260B. The analytical results indicate the wastes are non-hazardous. A copy of the laboratory analytical report for the waste characterization water and soil sample is

provided within Appendix I.

The 55-gallon drums of non-hazardous waste water and waste soil were transported offsite by Haz Mat Trans, Inc. (Haz Mat Trans), a state-licensed hazardous waste transporter, on August 21, 2019. These drums were transported to K-Pure Waterworks in Rancho Cucamonga, California. A copy of the nonhazardous waste manifest is provided within Appendix I.

CONCLUSIONS AND RECOMMENDATIONS

The Asbestos and Lead-Based Paint Surveys performed by LYEI at the onsite church building, two single-family residences, and a detached garage, concurrent with this Phase I and II ESA, indicates some building materials were found to contain asbestos or lead-based paint.

During our site reconnaissance, household quantities of hazardous materials were observed in the containers up to 5 gallons, including paint, gasoline, paint thinner, lacquer thinner, fertilizer, insecticide, and herbicide. Also, lead acid batteries and diesel for emergency electric backup generator are present within cellular communication equipment enclosures. A utility pole along the west/southwest side of the site has a mounted electrical transformer, likely containing transformer oil. No chemical leakage was observed. All containers of hazardous materials within the area of the proposed single-family residential development should be utilized or lawfully transported offsite prior to development.

No stained soils or chemical odor were noted onsite. Minor oil staining is present on the asphalt in the parking areas and diesel-stained concrete was observed in the secondary containment for the emergency electric backup generator in the eastern of the northerly cellular communication equipment enclosures, both de minimis conditions. A hardened material, possibly glue or spray insulating foam, was observed in a grass area along the west/southwest side of the southerly end of the sanctuary of the church building.

No environmental regulatory records were found for the subject site, except for the County of Los Angeles Fire Department, Health Hazardous Materials Division and California Department of Toxic Substances Control (DTSC). These records were related to lead acid batteries associated with the onsite cellular communication equipment and hazardous wastes associated with City of Pomona, Department of Public Works annual community cleanup events which involve the collection of waste oil and electronic wastes. Based on the information provided in these environmental regulatory records, no adverse

environmental impact to the subject site is anticipated.

There are numerous sites listed in environmental regulatory databases within 1 mile of the subject site, including the subject site. The subject site was listed for activities related to the onsite cellular communication equipment and City of Pomona, Department of Public Works community cleanup events. Based on the results of our Vapor Encroachment Screen (VES), Tier 1 screening, a vapor encroachment condition at the subject site can be ruled out. Based on our review of environmental regulatory databases and VES, no environmentally impaired properties, listed within these databases, have current or former releases of hazardous substances and/or petroleum products that have migrated to and/or impacted the subject site.

Based on the past agricultural grove usage and likely presence of building materials with lead-based paint, a Phase II ESA was performed, which included soil sampling. Four discrete soil samples for total arsenic and OCPs across the subject site, and fourteen composite soil samples for lead in soil near the foundations of the four onsite buildings, were collected. None of the four discrete soil samples had reportable concentrations of OCPs. Reported concentrations of total arsenic, ranging from 1.61 to 4.67 mg/kg, are within the expected background range (Bradford et al., 1996), and indicate no arsenic-impacted soils are present from past grove usage. The fourteen composite soil samples had concentrations of total lead reported from 12 to 954 mg/kg, nine of which exceed the California DTSC soil screening level for lead in residential soils at 80 mg/kg (California Department of Toxic Substances Control, 2019b). Additional soil sampling for total lead was conducted at 31 locations with three soil borings at each, advanced and sampled up to approximately 5 feet bgs, typically around 1, 3, and 5 feet away from building structures or associated concrete walks, roof drains, or brick planter. A total of three hundred and fifty-nine (359) soil samples were analyzed, with total lead concentrations ranging from non-detect at 0.500 mg/kg to 193 mg/kg. Twenty-three (23) of the three hundred and fifty-nine (359) soil samples had total lead concentrations exceeding the California DTSC soil screening level for lead in residential soils at 80 mg/kg. All of these twenty-three (23) soil samples were collected from the upper several inches of soil. All of the soil samples collected in the range from approximately 1 to 5 feet bgs had total lead concentrations less than the California DTSC soil screening level for lead in residential soils.

Based on the findings of the Phase I and II ESA and with consideration given to the recommendations contained in this report, (1) the subject site exhibits no evidence of recognized environmental conditions (RECs), historical recognized environmental conditions (HRECs), and/or controlled recognized environmental conditions (CRECs) indicative of releases or threatened releases of hazardous substances on, at, in, or to the

subject site that would prohibit its use as a residential development, and (2) no further investigations are recommended, except for the following:

- The historical presence of lead-based paint at the exterior of the four onsite buildings has resulted in surficial lead-impacted soils, and is a REC. Based on the number of samples and reported total lead results, we would not anticipate a significant impact to the proposed single-family residential development following grading activities, which will include approximately 4 to 6 feet of over-excavation, and will reduce the concentrations of total lead identified in the soils near or adjacent to the onsite buildings. However, taking a conservative approach to ensure there is no significant impact to the proposed residential development, we recommend removing the upper 1 foot of soil around and up to approximately 6 feet away from the four onsite buildings and associated features where lead-impacted soils have been identified. These impacted soils should be removed prior to site residential development. Future remedial activities to remove the lead-impacted soils should include confirmation soil sampling to verify adequate removal of impacted soils and offsite transport of these impacted soils to an appropriate disposal facility. To facilitate future remedial excavation of lead-impacted soils, the onsite building foundations and associated concrete walks should be left in place following demolition or these features should be surveyed so their exact location can be readily identified during remedial activities.

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STATEMENT OF QUALIFICATIONS

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 inquires in conformance with the standards and practices set forth in 40 CFR Part 312.

Mr. John Leuer is the President of LOR Geotechnical Group, Inc., founded in 1988. As a cofounder and President of the company, Mr. Leuer has managed LOR through hundreds of Phase I Environmental Site Assessments, as well as numerous Phase II Environmental Site Assessments and remediation projects, primarily remedial excavation. Mr. Leuer has over 36 years experience in the geotechnical and environmental fields. Mr. Leuer has substantial experience coordinating projects for many city, county and state agencies, as well as in the public sector, gaining a reputation for being responsive to clients needs while providing strong technical expertise. LOR Geotechnical Group, Inc. is one of three firms that previously provided report review for underground storage tank closure for the County of San Bernardino, Fire Department Hazardous Materials Division.

Mr. Leuer holds a B.S. in Civil Engineering from Cal State University at Northridge. He is a registered Geotechnical and Civil Engineer in the State of California. Mr. Leuer is a member of the American Society of Civil Engineers.

Mr. Mathew L. Hunt has over 20 years experience in the environmental field. Mr. Hunt works under LOR Geotechnical Group's environmental operations and has conducted over 350 Phase I Environmental Site Assessments for the private and public sectors. The properties have ranged from agricultural to residential to commercial/industrial. In addition to his experience with environmental assessments for property transfers, he has worked on projects that require mitigation prior to development. Mr. Hunt is well versed in hazardous waste sampling and characterization methodologies in soil and groundwater regimes for groundwater monitoring, site assessment, and site remediation. Projects have ranged from leaking USTs at gasoline stations to commercial and government (including Superfund/CERCLA sites) projects involving metals, perchlorate, and solvents.

Mr. Hunt has a B.S. in soil science from California Polytechnic State University, San Luis Obispo and a M.S. in soil and water science from the University of California, Riverside.

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LIMITATIONS

This report was prepared solely for the use and benefit of LOR's client, Lewis Land Developers, LLC, and their designates and assigns. They may release this information to third parties, who may use and rely upon this information at their discretion. However, any use of or reliance upon this information by a party other than Lewis Land Developers, LLC, and their designates and assigns, shall be solely at the risk of such third party and without legal recourse against LOR Geotechnical Group, Inc.; its subsidiaries and affiliates; or their respective employees, officers, or directors; regardless of whether the action in which recovery of damages is sought is based upon contract, statute, or otherwise.

The content and conclusions provided by LOR in this assessment are based on information collected during our investigation, which may include, but is not limited to, visual site inspections, interviews with the site owner, regulatory agencies and other pertinent individuals, a review of available public documents, and our professional judgement based on said information at the time of preparation of this document. Any subsurface samples results and observations presented herein are considered to be representative of the area of investigation; however, soil conditions may vary between sample locations and may not necessarily apply to the general site as a whole. If future subsurface or other conditions are revealed which may vary from these findings, the newly-revealed conditions must be evaluated and may invalidate the conclusions of this report.

This report has been prepared in accordance with generally accepted practices using standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. LOR Geotechnical Group, Inc. (LOR) is not responsible for the accuracy of information provided by other individuals or entities which is used in this report. This report presents our professional judgement based upon data and findings identified in this report, and the interpretation of such data based upon our experience and background, and no warranty, either expressed or implied, is made. The conclusions presented are based upon the current regulatory climate and may require revision if future regulatory changes occur.

TIME LIMITATIONS

The findings of this report are valid as of this date. Changes in the condition of a property can, however, occur with the passage of time, whether they be due to natural processes or the work of man on this or adjacent properties. In addition, changes in the Standards-of-Practice and/or Governmental Codes may occur. Due to such changes, the findings of this report may be invalidated wholly or in part by changes beyond our control. Therefore, this report should not be relied upon after a significant amount of time without a review by LOR Geotechnical Group, Inc., verifying the suitability of the conclusions and recommendations. Based on ASTM E1527-13 and AAI, certain components of this report are no longer valid after 180 days of their being performed, including interviews, visual inspection of the subject property and adjoining properties, and review of federal, tribal, state, and local government records. Once this 180-day period has expired, this report should be updated or revised to meet the requirements for continued viability under the ASTM and AAI standards.

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CLOSURE

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in § 312.10 of 40 CFR part 312.

We appreciate this opportunity to be of service and trust this report provides the information desired at this time. Should questions arise, please do not hesitate to contact this office.

Respectfully submitted,
LOR Geotechnical Group, Inc.

Mathew L. Hunt
Environmental Scientist

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John P. Leuer, CE 34996
President

MLH:JPL\ss

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FIGURES

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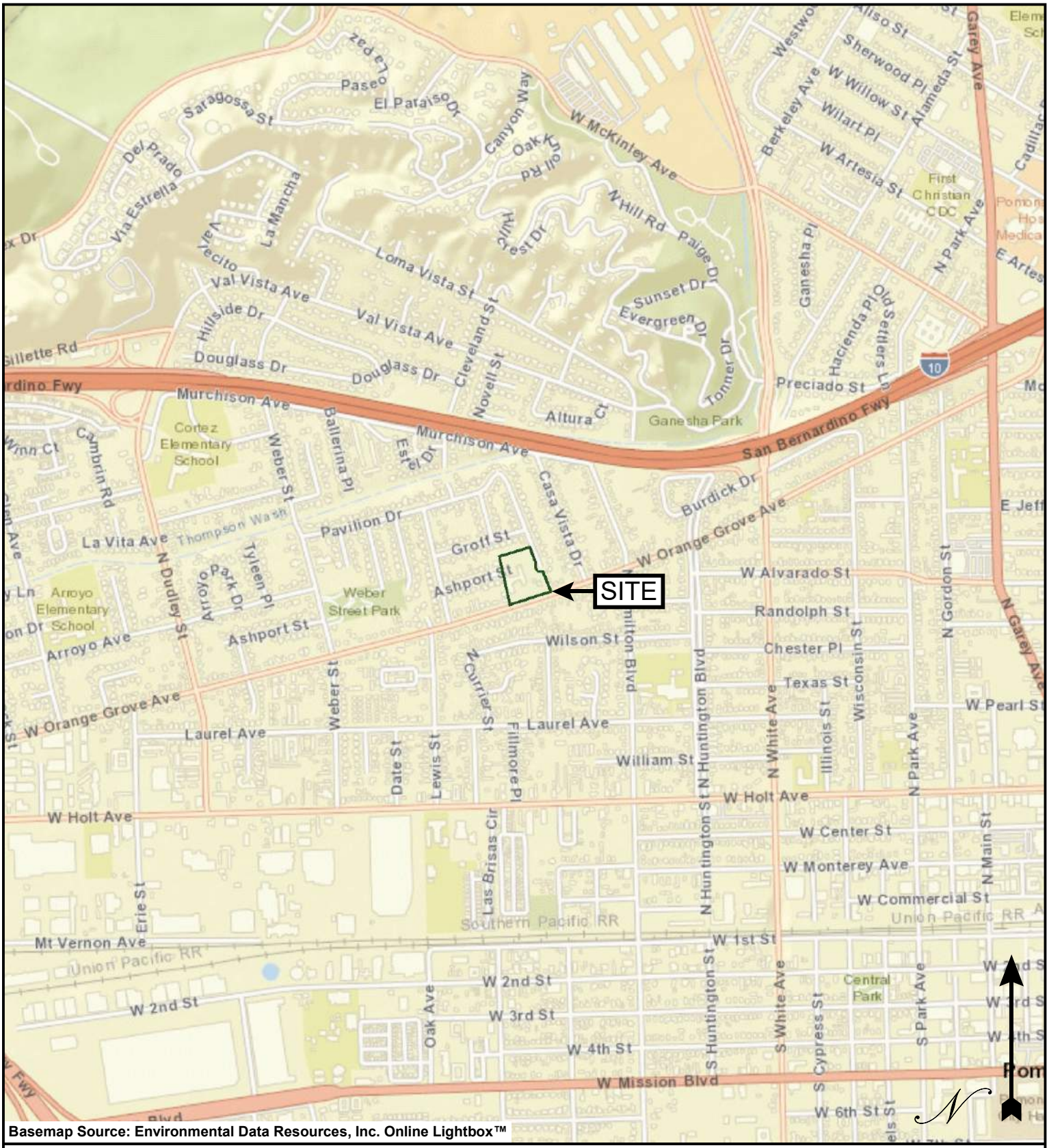

Basemap Source: Environmental Data Resources, Inc. Online Lightbox™

INDEX MAP

PROJECT:	**861, 863, & 875 WEST ORANGE GROVE AVENUE, POMONA, CA**	**PROJECT NO.:**	**33557.2**
CLIENT:	**LEWIS LAND DEVELOPERS, LLC**	**FIGURE:**	**1**
LOR Geotechnical Group, Inc.		**DATE:**	**JULY 2019**
		SCALE:	**1" ~ 1,240'**

Site Summary:

Total Homes : 40
Site Area : ± 3.68 Acres
Density : ± 10.9 Homes/Acre

Parking Required :
2.0 Spaces / 2 BR+ x 40 = 80
0.25 Guest Spaces x 40 = 10
Total Spaces = 90

Parking Provided :
Garage Spaces = 80
Uncovered Spaces*= 10
Total Spaces = 90

Unit Mix :

Rio Rancho Towne Center SFD
Plan 1 : 4 (50.0%)
Plan 2 : 2 (25.0%)
Plan 3 : 2 (25.0%)
Total : 8

Sevilla SFD
Plan 1 : 12 (37.5%)
Plan 2 : 14 (43.8%)
Plan 3 : 6 (18.7%)
Total : 32

*Note: 4 of 10 uncovered spaces are found along W. Orange Grove Avenue

Bassenian | Lagoni
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CONCEPTUAL SITE PLAN : B

CHURCH SITE

Pomona, California

SCALE: 1" = 40'-0"

016.19100

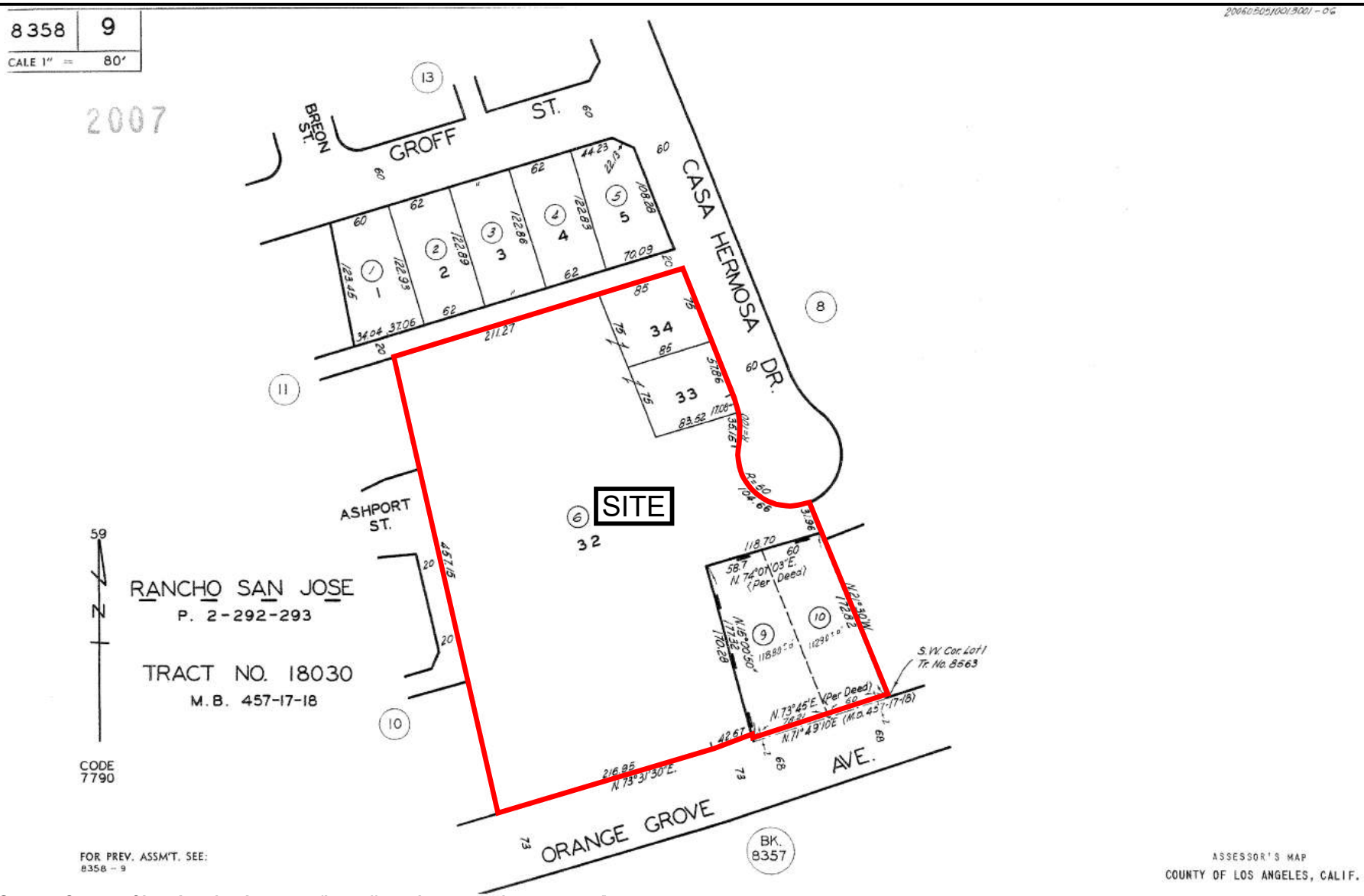
06.11.19

Note:
This yield study is for the purpose of estimating the maximum density of a residential project type on a site of a given configuration. If specific entitlement requirements differ from the criteria shown on the plan (such as setbacks, minimum lot sizes, street standards, retention requirements, etc.) then the actual possible density may vary substantially.

Lewis Group Of Companies

CONCEPTUAL SITE PLAN

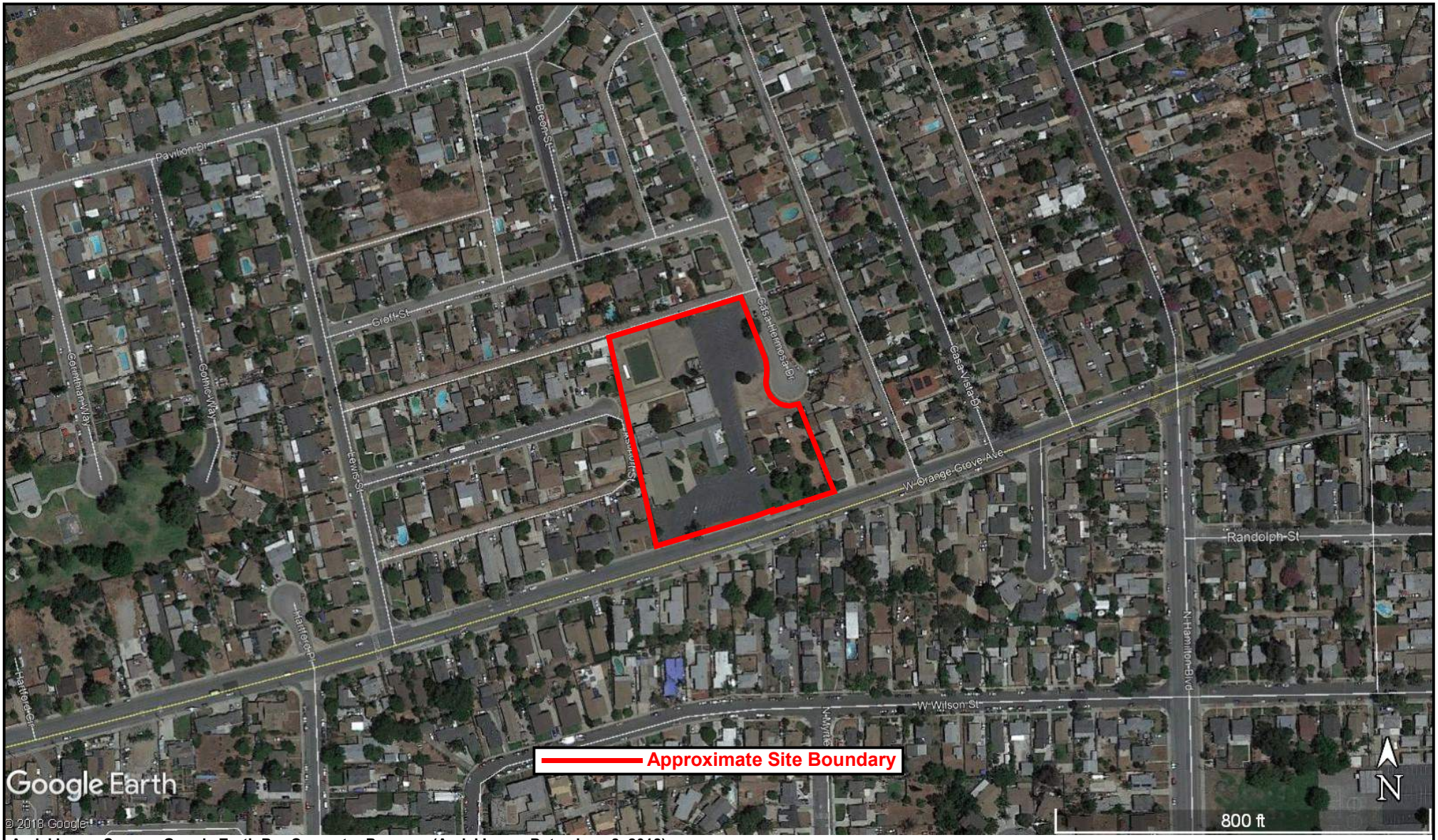
PROJECT:	**861, 863, & 875 WEST ORANGE GROVE AVENUE, POMONA, LOS ANGELES COUNTY, CA**	**PROJECT NO.:**	**33557.2**
CLIENT:	**LEWIS LAND DEVELOPERS, LLC**	**FIGURE:**	**2**
LOR Geotechnical Group, Inc.		**DATE:**	**JULY 2019**
		APPROX. SCALE:	**1" = 150'**



Basemap Source: County of Los Angeles Assessor (https://portal.assessor.lacounty.gov/)

ASSESSOR'S PARCEL MAP

PROJECT:	**861, 863, & 875 WEST ORANGE GROVE AVENUE, POMONA, LOS ANGELES COUNTY, CA**	**PROJECT NO.:**	**33557.2**
CLIENT:	**LEWIS LAND DEVELOPERS, LLC**	**FIGURE:**	**3**
LOR Geotechnical Group, Inc.		**DATE:**	**JULY 2019**
		APPROX. SCALE:	**1" = 150'**



Aerial Image Source: Google Earth Pro Computer Program (Aerial Image Date: June 8, 2018)

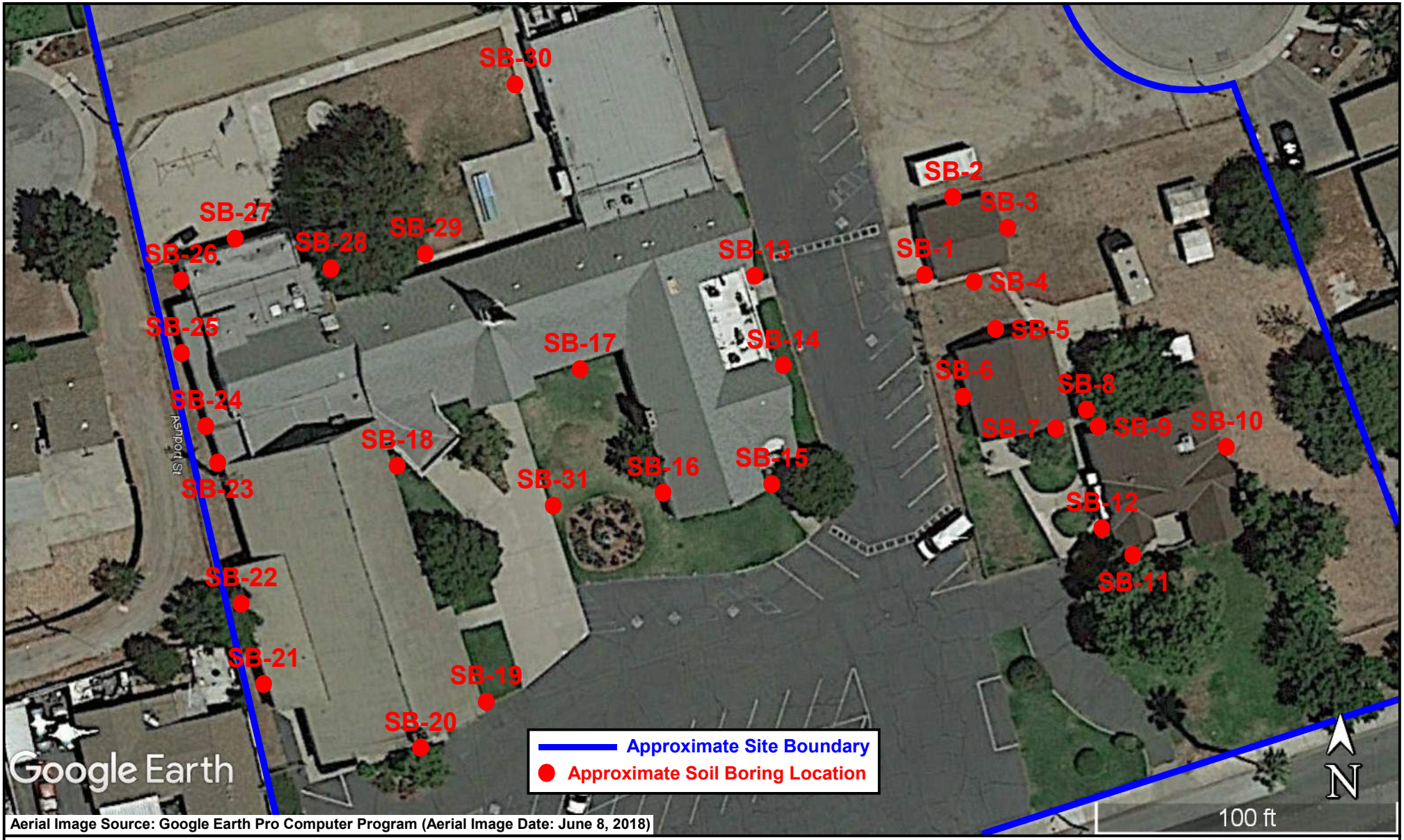
RECENT COLOR AERIAL PHOTOGRAPH

PROJECT:	**861, 863, & 875 WEST ORANGE GROVE AVENUE, POMONA, LOS ANGELES COUNTY, CA**	**PROJECT NO.:**	**33557.2**
CLIENT:	**LEWIS LAND DEVELOPERS, LLC**	**FIGURE:**	**4**
LOR Geotechnical Group, Inc.		**DATE:**	**JULY 2019**
		APPROX. SCALE:	**1" = 290'**

Aerial Image Source: Google Earth Pro Computer Program (Aerial Image Date: June 8, 2018)

SOIL SAMPLE LOCATIONS ON RECENT COLOR AERIAL PHOTOGRAPH

PROJECT:	861, 863, & 875 WEST ORANGE GROVE AVENUE, POMONA, LOS ANGELES COUNTY, CA	PROJECT NO.:	33557.2
CLIENT:	LEWIS LAND DEVELOPERS, LLC	FIGURE:	5
LOR Geotechnical Group, Inc.		DATE:	JULY 2019
		APPROX. SCALE:	1" = 100'



Aerial Image Source: Google Earth Pro Computer Program (Aerial Image Date: June 8, 2018)

SOIL BORING LOCATIONS ON RECENT COLOR AERIAL PHOTOGRAPH

PROJECT:	861, 863, & 875 WEST ORANGE GROVE AVENUE, POMONA, LOS ANGELES COUNTY, CA	PROJECT NO.:	33557.2
CLIENT:	LEWIS LAND DEVELOPERS, LLC	FIGURE:	6
LOR Geotechnical Group, Inc.		DATE:	AUGUST 2019
		APPROX. SCALE:	1" = 45'

TABLES

DRAFT

Table 1
Summary of Soil Sample Analytical Results for OCPs, As, and Pb
Proposed Residential Development, 861, 863, and 875 West Orange Grove Avenue, Pomona, California 91768

Sample ID	Date Sampled	OCPs [1] (mg/kg)	Total As [2] (mg/kg)	Total Pb [3] (mg/kg)
SS-1	06/25/19	ND<varies	**4.06**	NA
SS-2	06/25/19	ND<varies	**1.61**	NA
SS-3	06/25/19	ND<varies	**3.82**	NA
SS-4	06/25/19	ND<varies	**4.67**	NA
S-001	06/25/19	NA	NA	**95***
S-002	06/25/19	NA	NA	**336***
S-003	06/25/19	NA	NA	**228***
S-004	06/25/19	NA	NA	**64**
S-005	06/25/19	NA	NA	**82***
S-006	06/25/19	NA	NA	**12**
S-007	06/25/19	NA	NA	**99***
S-008	06/25/19	NA	NA	**56**
S-009	06/25/19	NA	NA	**90***
S-010	06/25/19	NA	NA	**81***
S-011	06/25/19	NA	NA	**954***
S-012	06/25/19	NA	NA	**58**
S-013	06/25/19	NA	NA	**53**
S-014	06/25/19	NA	NA	**126***

Notes:
[1] Analyzed using United States Environmental Protection Agency (USEPA) Method 8081A.
[2] Analyzed using USEPA Method 6020.
[3] Analyzed using USEPA Method 7420.
ID = identification
OCPs = organochlorine pesticides
As = arsenic
Pb = lead
mg/kg = milligrams per kilogram
ND<varies = Not detected (ND) at various laboratory reporting limits (RLs).
4.06 = Analytical results above the laboratory RL are shown in **BOLD**.
NA = not analyzed
95* = Sample result exceeds the California Department of Toxic Substances Control screening level for residential soils at 80 mg/kg.

Table 2
Soil Sample Analytical Results for Total Lead in Soil Borings
Proposed Residential Development, 861, 863, and 875 West Orange Grove Avenue, Pomona, California 91768

Sample ID	Date Sampled	Sample Depth [1] (feet)	Location	Total Pb [2] (mg/kg)
SOIL BORING SB-1				
SB-1A-0	07/29/19	0	Approximately 1 foot from westerly side of detached garage, next to concrete driveway.	**45.8**
SB-1A-1	07/29/19	1	Approximately 1 foot from westerly side of detached garage, next to concrete driveway.	**34.4**
SB-1A-3	07/29/19	3	Approximately 1 foot from westerly side of detached garage, next to concrete driveway.	**4.58**
SB-1A-5	07/29/19	5	Approximately 1 foot from westerly side of detached garage, next to concrete driveway.	**3.71**
SB-1B-0	07/29/19	0	Approximately 3 feet from westerly side of detached garage, next to concrete driveway.	**47.3**
SB-1B-1	07/29/19	1	Approximately 3 feet from westerly side of detached garage, next to concrete driveway.	**8.78**
SB-1B-3	07/29/19	3	Approximately 3 feet from westerly side of detached garage, next to concrete driveway.	**4.21**
SB-1B-5	07/29/19	5	Approximately 3 feet from westerly side of detached garage, next to concrete driveway.	**3.85**
SB-1C-0	07/29/19	0	Approximately 5 feet from westerly side of detached garage, next to concrete driveway.	**48.6**
SB-1C-1	07/29/19	1	Approximately 5 feet from westerly side of detached garage, next to concrete driveway.	**9.05**
SB-1C-3	07/29/19	3	Approximately 5 feet from westerly side of detached garage, next to concrete driveway.	**3.93**
SB-1C-5	07/29/19	5	Approximately 5 feet from westerly side of detached garage, next to concrete driveway.	**3.95**
SOIL BORING SB-2				
SB-2A-0	07/29/19	0	Approximately 1 foot from northerly side of detached garage.	**33.5**
SB-2A-1	07/29/19	1	Approximately 1 foot from northerly side of detached garage.	**15.8**
SB-2A-3	07/29/19	3	Approximately 1 foot from northerly side of detached garage.	**4.13**
SB-2A-5	07/29/19	5	Approximately 1 foot from northerly side of detached garage.	**4.56**
SB-2B-0	07/29/19	0	Approximately 3.5 feet from northerly side of detached garage.	**35.9**
SB-2B-1	07/29/19	1	Approximately 3.5 feet from northerly side of detached garage.	**14.5**
SB-2B-3	07/29/19	3	Approximately 3.5 feet from northerly side of detached garage.	**4.51**
SB-2B-5	07/29/19	5	Approximately 3.5 feet from northerly side of detached garage.	**6.73**
SB-2C-0	07/29/19	0	Approximately 5 feet from northerly side of detached garage.	**21.9**
SB-2C-1	07/29/19	1	Approximately 5 feet from northerly side of detached garage.	**5.06**
SB-2C-3	07/29/19	3	Approximately 5 feet from northerly side of detached garage.	**4.48**
SB-2C-5	07/29/19	5	Approximately 5 feet from northerly side of detached garage.	**7.04**
SOIL BORING SB-3				
SB-3A-0	07/29/19	0	Approximately 1 foot from easterly side of detached garage.	**44.0**
SB-3A-1	07/29/19	1	Approximately 1 foot from easterly side of detached garage.	**16.5**
SB-3A-3	07/29/19	3	Approximately 1 foot from easterly side of detached garage.	**4.47**
SB-3A-5	07/29/19	5	Approximately 1 foot from easterly side of detached garage.	**4.21**
SB-3B-0	07/29/19	0	Approximately 3 feet from easterly side of detached garage.	**34.8**
SB-3B-1	07/29/19	1	Approximately 3 feet from easterly side of detached garage.	**8.61**
SB-3B-3	07/29/19	3	Approximately 3 feet from easterly side of detached garage.	**4.01**
SB-3B-5	07/29/19	5	Approximately 3 feet from easterly side of detached garage.	**4.90**
SB-3C-0	07/29/19	0	Approximately 5 feet from easterly side of detached garage.	**39.5**
SB-3C-1	07/29/19	1	Approximately 5 feet from easterly side of detached garage.	**5.00**
SB-3C-3	07/29/19	3	Approximately 5 feet from easterly side of detached garage.	**4.14**
SB-3C-5	07/29/19	5	Approximately 5 feet from easterly side of detached garage.	**4.89**

Table 2
Soil Sample Analytical Results for Total Lead in Soil Borings
Proposed Residential Development, 861, 863, and 875 West Orange Grove Avenue, Pomona, California 91768

Sample ID	Date Sampled	Sample Depth [1] (feet)	Location	Total Pb [2] (mg/kg)
SOIL BORING SB-4				
SB-4A-0	07/29/19	0	Approximately 1 foot from concrete walk along the southerly side of detached garage.	**44.8**
SB-4A-1	07/29/19	1	Approximately 1 foot from concrete walk along the southerly side of detached garage.	**13.2**
SB-4A-3	07/29/19	3	Approximately 1 foot from concrete walk along the southerly side of detached garage.	**5.05**
SB-4A-5	07/29/19	5	Approximately 1 foot from concrete walk along the southerly side of detached garage.	**4.41**
SB-4B-0	07/29/19	0	Approximately 3 feet from concrete walk along the southerly side of detached garage.	**36.2**
SB-4B-1	07/29/19	1	Approximately 3 feet from concrete walk along the southerly side of detached garage.	**19.7**
SB-4B-3	07/29/19	3	Approximately 3 feet from concrete walk along the southerly side of detached garage.	**4.22**
SB-4B-5	07/29/19	5	Approximately 3 feet from concrete walk along the southerly side of detached garage.	**3.95**
SB-4C-0	07/29/19	0	Approximately 5 feet from concrete walk along the southerly side of detached garage.	**45.7**
SB-4C-1	07/29/19	1	Approximately 5 feet from concrete walk along the southerly side of detached garage.	**6.20**
SB-4C-3	07/29/19	3	Approximately 5 feet from concrete walk along the southerly side of detached garage.	**3.78**
SB-4C-5	07/29/19	5	Approximately 5 feet from concrete walk along the southerly side of detached garage.	**4.24**
SOIL BORING SB-5				
SB-5A-0	07/29/19	0	Approximately 1 foot from concrete walk along northerly side of single-family residence at 863 West Orange Grove Avenue.	**29.8**
SB-5A-1	07/29/19	1	Approximately 1 foot from concrete walk along northerly side of single-family residence at 863 West Orange Grove Avenue.	**19.0**
SB-5A-3	07/29/19	3	Approximately 1 foot from concrete walk along northerly side of single-family residence at 863 West Orange Grove Avenue.	**4.21**
SB-5A-5	07/29/19	5	Approximately 1 foot from concrete walk along northerly side of single-family residence at 863 West Orange Grove Avenue.	**4.13**
SB-5B-0	07/29/19	0	Approximately 3 feet from concrete walk along northerly side of single-family residence at 863 West Orange Grove Avenue.	**47.9**
SB-5B-1	07/29/19	1	Approximately 3 feet from concrete walk along northerly side of single-family residence at 863 West Orange Grove Avenue.	**17.1**
SB-5B-3	07/29/19	3	Approximately 3 feet from concrete walk along northerly side of single-family residence at 863 West Orange Grove Avenue.	**4.25**
SB-5B-5	07/29/19	5	Approximately 3 feet from concrete walk along northerly side of single-family residence at 863 West Orange Grove Avenue.	**16.0**
SB-5C-0	07/29/19	0	Approximately 5 feet from concrete walk along northerly side of single-family residence at 863 West Orange Grove Avenue.	**49.4**
SB-5C-1	07/29/19	1	Approximately 5 feet from concrete walk along northerly side of single-family residence at 863 West Orange Grove Avenue.	**5.76**
SB-5C-3	07/29/19	3	Approximately 5 feet from concrete walk along northerly side of single-family residence at 863 West Orange Grove Avenue.	**4.09**
SB-5C-5	07/29/19	5	Approximately 5 feet from concrete walk along northerly side of single-family residence at 863 West Orange Grove Avenue.	**7.57**
SOIL BORING SB-6				
SB-6A-0	07/29/19	0	Approximately 1 foot from westerly side of single-family residence at 863 West Orange Grove Avenue.	**94.2**
SB-6A-1	07/29/19	1	Approximately 1 foot from westerly side of single-family residence at 863 West Orange Grove Avenue.	**22.7**
SB-6A-3	07/29/19	3	Approximately 1 foot from westerly side of single-family residence at 863 West Orange Grove Avenue.	**4.42**
SB-6A-4.5	07/29/19	4.5	Approximately 1 foot from westerly side of single-family residence at 863 West Orange Grove Avenue.	**24.2**
SB-6B-0	07/29/19	0	Approximately 3 feet from westerly side of single-family residence at 863 West Orange Grove Avenue.	**104**
SB-6B-1	07/29/19	1	Approximately 3 feet from westerly side of single-family residence at 863 West Orange Grove Avenue.	**65.0**
SB-6B-3	07/29/19	3	Approximately 3 feet from westerly side of single-family residence at 863 West Orange Grove Avenue.	**4.35**
SB-6B-5	07/29/19	5	Approximately 3 feet from westerly side of single-family residence at 863 West Orange Grove Avenue.	**4.68**
SB-6C-0	07/29/19	0	Approximately 5 feet from westerly side of single-family residence at 863 West Orange Grove Avenue.	**89.7**
SB-6C-1	07/29/19	1	Approximately 5 feet from westerly side of single-family residence at 863 West Orange Grove Avenue.	**76.0**
SB-6C-3	07/29/19	3	Approximately 5 feet from westerly side of single-family residence at 863 West Orange Grove Avenue.	**4.42**
SB-6C-5	07/29/19	5	Approximately 5 feet from westerly side of single-family residence at 863 West Orange Grove Avenue.	**4.40**

Table 2
Soil Sample Analytical Results for Total Lead in Soil Borings
Proposed Residential Development, 861, 863, and 875 West Orange Grove Avenue, Pomona, California 91768

Sample ID	Date Sampled	Sample Depth [1] (feet)	Location	Total Pb [2] (mg/kg)
SOIL BORING SB-7				
SB-7A-0	07/29/19	0	Approximately 1 foot from southerly side of single-family residence at 863 West Orange Grove Avenue.	**78.9**
SB-7A-1	07/29/19	1	Approximately 1 foot from southerly side of single-family residence at 863 West Orange Grove Avenue.	**39.2**
SB-7A-3	07/29/19	3	Approximately 1 foot from southerly side of single-family residence at 863 West Orange Grove Avenue.	**5.03**
SB-7A-4.5	07/29/19	4.5	Approximately 1 foot from southerly side of single-family residence at 863 West Orange Grove Avenue.	**21.8**
SB-7B-0	07/29/19	0	Approximately 3 feet from southerly side of single-family residence at 863 West Orange Grove Avenue.	**85.9**
SB-7B-1	07/29/19	1	Approximately 3 feet from southerly side of single-family residence at 863 West Orange Grove Avenue.	**6.48**
SB-7B-3	07/29/19	3	Approximately 3 feet from southerly side of single-family residence at 863 West Orange Grove Avenue.	**5.99**
SB-7B-4.5	07/29/19	4.5	Approximately 3 feet from southerly side of single-family residence at 863 West Orange Grove Avenue.	**7.40**
SB-7C-0	07/29/19	0	Approximately 5 feet from southerly side of single-family residence at 863 West Orange Grove Avenue.	**171**
SB-7C-1	07/29/19	1	Approximately 5 feet from southerly side of single-family residence at 863 West Orange Grove Avenue.	**11.2**
SB-7C-3	07/29/19	3	Approximately 5 feet from southerly side of single-family residence at 863 West Orange Grove Avenue.	**3.97**
SB-7C-4.5	07/29/19	4.5	Approximately 5 feet from southerly side of single-family residence at 863 West Orange Grove Avenue.	**34.0**
SOIL BORING SB-8				
SB-8A-0	07/30/19	0	Approximately 1 foot from concrete walk along easterly side of single-family residence at 863 West Orange Grove Avenue.	**141**
SB-8A-1	07/30/19	1	Approximately 1 foot from concrete walk along easterly side of single-family residence at 863 West Orange Grove Avenue.	**31.4**
SB-8A-3	07/30/19	3	Approximately 1 foot from concrete walk along easterly side of single-family residence at 863 West Orange Grove Avenue.	**8.66**
SB-8A-5	07/30/19	5	Approximately 1 foot from concrete walk along easterly side of single-family residence at 863 West Orange Grove Avenue.	**38.6**
SB-8B-0	07/30/19	0	Approximately 3 feet from concrete walk along easterly side of single-family residence at 863 West Orange Grove Avenue.	**105**
SB-8B-1	07/30/19	1	Approximately 3 feet from concrete walk along easterly side of single-family residence at 863 West Orange Grove Avenue.	**7.89**
SB-8B-3	07/30/19	3	Approximately 3 feet from concrete walk along easterly side of single-family residence at 863 West Orange Grove Avenue.	**7.36**
SB-8B-5	07/30/19	5	Approximately 3 feet from concrete walk along easterly side of single-family residence at 863 West Orange Grove Avenue.	**17.8**
SB-8C-0	07/30/19	0	Approximately 5 feet from concrete walk along easterly side of single-family residence at 863 West Orange Grove Avenue.	**156**
SB-8C-1	07/30/19	1	Approximately 5 feet from concrete walk along easterly side of single-family residence at 863 West Orange Grove Avenue.	**18.1**
SB-8C-3	07/30/19	3	Approximately 5 feet from concrete walk along easterly side of single-family residence at 863 West Orange Grove Avenue.	**6.43**
SB-8C-5	07/30/19	5	Approximately 5 feet from concrete walk along easterly side of single-family residence at 863 West Orange Grove Avenue.	**11.5**
SOIL BORING SB-9				
SB-9A-0	07/29/19	0	Approximately 1 foot from northerly side of single-family residence at 861 West Orange Grove Avenue.	**37.5**
SB-9A-1	07/29/19	1	Approximately 1 foot from northerly side of single-family residence at 861 West Orange Grove Avenue.	**27.4**
SB-9A-3	07/29/19	3	Approximately 1 foot from northerly side of single-family residence at 861 West Orange Grove Avenue.	**3.85**
SB-9A-5	07/29/19	5	Approximately 1 foot from northerly side of single-family residence at 861 West Orange Grove Avenue.	**3.73**
SB-9B-0	07/29/19	0	Approximately 3 feet from northerly side of single-family residence at 861 West Orange Grove Avenue.	**50.3**
SB-9B-1	07/29/19	1	Approximately 3 feet from northerly side of single-family residence at 861 West Orange Grove Avenue.	**7.01**
SB-9B-3	07/29/19	3	Approximately 3 feet from northerly side of single-family residence at 861 West Orange Grove Avenue.	**3.39**
SB-9B-5	07/29/19	5	Approximately 3 feet from northerly side of single-family residence at 861 West Orange Grove Avenue.	**6.58**
SB-9C-0	07/29/19	0	Approximately 5 feet from northerly side of single-family residence at 861 West Orange Grove Avenue.	**48.9**
SB-9C-1	07/29/19	1	Approximately 5 feet from northerly side of single-family residence at 861 West Orange Grove Avenue.	**5.44**
SB-9C-3	07/29/19	3	Approximately 5 feet from northerly side of single-family residence at 861 West Orange Grove Avenue.	**3.84**
SB-9C-5	07/29/19	5	Approximately 5 feet from northerly side of single-family residence at 861 West Orange Grove Avenue.	**3.51**

Table 2
Soil Sample Analytical Results for Total Lead in Soil Borings
Proposed Residential Development, 861, 863, and 875 West Orange Grove Avenue, Pomona, California 91768

Sample ID	Date Sampled	Sample Depth [1] (feet)	Location	Total Pb [2] (mg/kg)
SOIL BORING SB-10				
SB-10A-0	07/30/19	0	Approximately 1 foot from easterly side of single-family residence at 861 West Orange Grove Avenue.	**147**
SB-10A-1	07/30/19	1	Approximately 1 foot from easterly side of single-family residence at 861 West Orange Grove Avenue.	**56.5**
SB-10A-3	07/30/19	3	Approximately 1 foot from easterly side of single-family residence at 861 West Orange Grove Avenue.	**8.17**
SB-10A-5	07/30/19	5	Approximately 1 foot from easterly side of single-family residence at 861 West Orange Grove Avenue.	**26.3**
SB-10B-0	07/30/19	0	Approximately 3 feet from easterly side of single-family residence at 861 West Orange Grove Avenue.	**83.0**
SB-10B-1	07/30/19	1	Approximately 3 feet from easterly side of single-family residence at 861 West Orange Grove Avenue.	**24.5**
SB-10B-3	07/30/19	3	Approximately 3 feet from easterly side of single-family residence at 861 West Orange Grove Avenue.	**8.02**
SB-10B-5	07/30/19	5	Approximately 3 feet from easterly side of single-family residence at 861 West Orange Grove Avenue.	**9.25**
SB-10C-0	07/30/19	0	Approximately 5 feet from easterly side of single-family residence at 861 West Orange Grove Avenue.	**83.6**
SB-10C-1	07/30/19	1	Approximately 5 feet from easterly side of single-family residence at 861 West Orange Grove Avenue.	**32.6**
SB-10C-3	07/30/19	3	Approximately 5 feet from easterly side of single-family residence at 861 West Orange Grove Avenue.	**29.5**
SB-10C-5	07/30/19	5	Approximately 5 feet from easterly side of single-family residence at 861 West Orange Grove Avenue.	**14.1**
SOIL BORING SB-11				
SB-11A-0	07/30/19	0	Approximately 1 foot from southerly side of single-family residence at 861 West Orange Grove Avenue.	**131**
SB-11A-1	07/30/19	1	Approximately 1 foot from southerly side of single-family residence at 861 West Orange Grove Avenue.	**16.6**
SB-11A-3	07/30/19	3	Approximately 1 foot from southerly side of single-family residence at 861 West Orange Grove Avenue.	**9.33**
SB-11A-4.5	07/30/19	4.5	Approximately 1 foot from southerly side of single-family residence at 861 West Orange Grove Avenue.	**18.6**
SB-11B-0	07/30/19	0	Approximately 3 feet from southerly side of single-family residence at 861 West Orange Grove Avenue.	**104**
SB-11B-1	07/30/19	1	Approximately 3 feet from southerly side of single-family residence at 861 West Orange Grove Avenue.	**15.4**
SB-11B-3	07/30/19	3	Approximately 3 feet from southerly side of single-family residence at 861 West Orange Grove Avenue.	**7.96**
SB-11B-5	07/30/19	5	Approximately 3 feet from southerly side of single-family residence at 861 West Orange Grove Avenue.	**8.17**
SB-11C-0	07/30/19	0	Approximately 5 feet from southerly side of single-family residence at 861 West Orange Grove Avenue.	**111**
SB-11C-1	07/30/19	1	Approximately 5 feet from southerly side of single-family residence at 861 West Orange Grove Avenue.	**50.8**
SB-11C-3	07/30/19	3	Approximately 5 feet from southerly side of single-family residence at 861 West Orange Grove Avenue.	**38.2**
SB-11C-5	07/30/19	5	Approximately 5 feet from southerly side of single-family residence at 861 West Orange Grove Avenue.	**7.62**
SOIL BORING SB-12				
SB-12A-0	07/29/19	0	Approximately 1 foot from westerly side of single-family residence at 861 West Orange Grove Avenue.	**56.1**
SB-12A-1	07/29/19	1	Approximately 1 foot from westerly side of single-family residence at 861 West Orange Grove Avenue.	**49.3**
SB-12A-3	07/29/19	3	Approximately 1 foot from westerly side of single-family residence at 861 West Orange Grove Avenue.	**4.33**
SB-12A-5	07/29/19	5	Approximately 1 foot from westerly side of single-family residence at 861 West Orange Grove Avenue.	**4.05**
SB-12B-0	07/29/19	0	Approximately 3 feet from westerly side of single-family residence at 861 West Orange Grove Avenue.	**55.3**
SB-12B-1	07/29/19	1	Approximately 3 feet from westerly side of single-family residence at 861 West Orange Grove Avenue.	**16.6**
SB-12B-3	07/29/19	3	Approximately 3 feet from westerly side of single-family residence at 861 West Orange Grove Avenue.	**4.00**
SB-12B-5	07/29/19	5	Approximately 3 feet from westerly side of single-family residence at 861 West Orange Grove Avenue.	**3.31**
SB-12C-0	07/29/19	0	Approximately 6 feet from westerly side of single-family residence at 861 West Orange Grove Avenue, next to concrete walk.	**55.4**
SB-12C-1	07/29/19	1	Approximately 6 feet from westerly side of single-family residence at 861 West Orange Grove Avenue, next to concrete walk.	**40.2**
SB-12C-3	07/29/19	3	Approximately 6 feet from westerly side of single-family residence at 861 West Orange Grove Avenue, next to concrete walk.	**3.72**
SB-12C-5	07/29/19	5	Approximately 6 feet from westerly side of single-family residence at 861 West Orange Grove Avenue, next to concrete walk.	**3.45**

Table 2
Soil Sample Analytical Results for Total Lead in Soil Borings
Proposed Residential Development, 861, 863, and 875 West Orange Grove Avenue, Pomona, California 91768

Sample ID	Date Sampled	Sample Depth [1] (feet)	Location	Total Pb [2] (mg/kg)
SOIL BORING SB-13				
SB-13A-0	07/26/19	0	Approximately 1 foot from concrete walk along the easterly side of the church building at 875 West Orange Grove Avenue.	**80.7**
SB-13A-1	07/26/19	1	Approximately 1 foot from concrete walk along the easterly side of the church building at 875 West Orange Grove Avenue.	**48.3**
SB-13A-3	07/26/19	3	Approximately 1 foot from concrete walk along the easterly side of the church building at 875 West Orange Grove Avenue.	**4.47**
SB-13A-5	07/26/19	5	Approximately 1 foot from concrete walk along the easterly side of the church building at 875 West Orange Grove Avenue.	**5.01**
SB-13B-0	07/26/19	0	Approximately 3 feet from concrete walk along the easterly side of the church building at 875 West Orange Grove Avenue.	**74.5**
SB-13B-1	07/26/19	1	Approximately 3 feet from concrete walk along the easterly side of the church building at 875 West Orange Grove Avenue.	**7.47**
SB-13B-3	07/26/19	3	Approximately 3 feet from concrete walk along the easterly side of the church building at 875 West Orange Grove Avenue.	**4.14**
SB-13B-5	07/26/19	5	Approximately 3 feet from concrete walk along the easterly side of the church building at 875 West Orange Grove Avenue.	**4.31**
SB-13C-0	07/26/19	0	Approximately 5 feet from concrete walk along the easterly side of the church building at 875 West Orange Grove Avenue.	**37.1**
SB-13C-1	07/26/19	1	Approximately 5 feet from concrete walk along the easterly side of the church building at 875 West Orange Grove Avenue.	**5.86**
SB-13C-3	07/26/19	3	Approximately 5 feet from concrete walk along the easterly side of the church building at 875 West Orange Grove Avenue.	**4.31**
SB-13C-5	07/26/19	5	Approximately 5 feet from concrete walk along the easterly side of the church building at 875 West Orange Grove Avenue.	**5.32**
SOIL BORING SB-14				
SB-14A-0	07/26/19	0	Approximately 1 foot from the easterly side of the church building at 875 West Orange Grove Avenue.	**57.8**
SB-14A-1	07/26/19	1	Approximately 1 foot from the easterly side of the church building at 875 West Orange Grove Avenue.	**6.97**
SB-14A-3	07/26/19	3	Approximately 1 foot from the easterly side of the church building at 875 West Orange Grove Avenue.	**4.45**
SB-14A-5	07/26/19	5	Approximately 1 foot from the easterly side of the church building at 875 West Orange Grove Avenue.	**4.03**
SB-14B-0	07/26/19	0	Approximately 3 feet from the easterly side of the church building at 875 West Orange Grove Avenue.	**56.3**
SB-14B-1	07/26/19	1	Approximately 3 feet from the easterly side of the church building at 875 West Orange Grove Avenue.	**15.4**
SB-14B-3	07/26/19	3	Approximately 3 feet from the easterly side of the church building at 875 West Orange Grove Avenue.	**3.69**
SB-14B-5	07/26/19	5	Approximately 3 feet from the easterly side of the church building at 875 West Orange Grove Avenue.	**4.55**
SB-14C-0	07/26/19	0	Approximately 5 feet from the easterly side of the church building at 875 West Orange Grove Avenue.	**20.3**
SB-14C-1	07/26/19	1	Approximately 5 feet from the easterly side of the church building at 875 West Orange Grove Avenue.	**6.67**
SB-14C-3	07/26/19	3	Approximately 5 feet from the easterly side of the church building at 875 West Orange Grove Avenue.	**4.31**
SB-14C-5	07/26/19	5	Approximately 5 feet from the easterly side of the church building at 875 West Orange Grove Avenue.	**3.86**
SOIL BORING SB-15				
SB-15A-0	07/26/19	0	Approximately 1 foot from the easterly side of the church building at 875 West Orange Grove Avenue.	**77.3**
SB-15A-1	07/26/19	1	Approximately 1 foot from the easterly side of the church building at 875 West Orange Grove Avenue.	**61.1**
SB-15A-3	07/26/19	3	Approximately 1 foot from the easterly side of the church building at 875 West Orange Grove Avenue.	**6.48**
SB-15A-5	07/26/19	5	Approximately 1 foot from the easterly side of the church building at 875 West Orange Grove Avenue.	**4.41**
SB-15B-0	07/26/19	0	Approximately 3 feet from the easterly side of the church building at 875 West Orange Grove Avenue.	**119**
SB-15B-1	07/26/19	1	Approximately 3 feet from the easterly side of the church building at 875 West Orange Grove Avenue.	**21.3**
SB-15B-3	07/26/19	3	Approximately 3 feet from the easterly side of the church building at 875 West Orange Grove Avenue.	**35.3**
SB-15C-0	07/26/19	0	Approximately 5 feet from the easterly side of the church building at 875 West Orange Grove Avenue.	**155**
SB-15C-1	07/26/19	1	Approximately 5 feet from the easterly side of the church building at 875 West Orange Grove Avenue.	**14.4**
SB-15C-3	07/26/19	3	Approximately 5 feet from the easterly side of the church building at 875 West Orange Grove Avenue.	**4.53**
SB-15C-5	07/26/19	5	Approximately 5 feet from the easterly side of the church building at 875 West Orange Grove Avenue.	**5.07**

Table 2
Soil Sample Analytical Results for Total Lead in Soil Borings
Proposed Residential Development, 861, 863, and 875 West Orange Grove Avenue, Pomona, California 91768

Sample ID	Date Sampled	Sample Depth [1] (feet)	Location	Total Pb [2] (mg/kg)
SOIL BORING SB-16				
SB-16A-0	07/26/19	0	Approximately 1 foot from the westerly side of the church building (fellowship hall) at 875 West Orange Grove Avenue.	**193**
SB-16A-1	07/26/19	1	Approximately 1 foot from the westerly side of the church building (fellowship hall) at 875 West Orange Grove Avenue.	**9.16**
SB-16A-3	07/26/19	3	Approximately 1 foot from the westerly side of the church building (fellowship hall) at 875 West Orange Grove Avenue.	**5.29**
SB-16A-5	07/26/19	5	Approximately 1 foot from the westerly side of the church building (fellowship hall) at 875 West Orange Grove Avenue.	**14.8**
SB-16B-0	07/26/19	0	Approximately 3 feet from the westerly side of the church building (fellowship hall) at 875 West Orange Grove Avenue.	**50.6**
SB-16B-1	07/26/19	1	Approximately 3.5 feet from the westerly side of the church building (fellowship hall) at 875 West Orange Grove Avenue.	**7.64**
SB-16B-3	07/26/19	3	Approximately 3.5 feet from the westerly side of the church building (fellowship hall) at 875 West Orange Grove Avenue.	**7.84**
SB-16B-4.5	07/26/19	4.5	Approximately 3.5 feet from the westerly side of the church building (fellowship hall) at 875 West Orange Grove Avenue.	**5.95**
SB-16C-0	07/26/19	0	Approximately 5 feet from the westerly side of the church building (fellowship hall) at 875 West Orange Grove Avenue.	**30.0**
SB-16C-1	07/26/19	1	Approximately 5 feet from the westerly side of the church building (fellowship hall) at 875 West Orange Grove Avenue.	**4.67**
SB-16C-3	07/26/19	3	Approximately 5.5 feet from the westerly side of the church building (fellowship hall) at 875 West Orange Grove Avenue.	**5.83**
SB-16C-4.5	07/26/19	4.5	Approximately 5.5 feet from the westerly side of the church building (fellowship hall) at 875 West Orange Grove Avenue.	**6.77**
SOIL BORING SB-17				
SB-17A-0	07/25/19	0	Approximately 1 foot from a brick planter along the southerly side of the church building at 875 West Orange Grove Avenue.	**83.8**
SB-17A-1	07/25/19	1	Approximately 1 foot from a brick planter along the southerly side of the church building at 875 West Orange Grove Avenue.	**21.5**
SB-17A-3	07/25/19	3	Approximately 1 foot from a brick planter along the southerly side of the church building at 875 West Orange Grove Avenue.	**9.75**
SB-17A-5	07/25/19	5	Approximately 1 foot from a brick planter along the southerly side of the church building at 875 West Orange Grove Avenue.	**14.8**
SB-17B-0	07/25/19	0	Approximately 3 feet from a brick planter along the southerly side of the church building at 875 West Orange Grove Avenue.	**62.5**
SB-17B-1	07/25/19	1	Approximately 3 feet from a brick planter along the southerly side of the church building at 875 West Orange Grove Avenue.	**17.5**
SB-17B-3	07/25/19	3	Approximately 3 feet from a brick planter along the southerly side of the church building at 875 West Orange Grove Avenue.	**5.75**
SB-17B-5	07/25/19	5	Approximately 3 feet from a brick planter along the southerly side of the church building at 875 West Orange Grove Avenue.	ND<0.500
SB-17C-0	07/25/19	0	Approximately 5 feet from a brick planter along the southerly side of the church building at 875 West Orange Grove Avenue.	**66.3**
SB-17C-1	07/25/19	1	Approximately 5 feet from a brick planter along the southerly side of the church building at 875 West Orange Grove Avenue.	**6.50**
SB-17C-3	07/25/19	3	Approximately 5 feet from a brick planter along the southerly side of the church building at 875 West Orange Grove Avenue.	**9.00**
SB-17C-5	07/25/19	5	Approximately 5 feet from a brick planter along the southerly side of the church building at 875 West Orange Grove Avenue.	**11.3**
SOIL BORING SB-18				
SB-18A-0	07/25/19	0	Approximately 1 foot from the easterly side of the church building (sanctuary) at 875 West Orange Grove Avenue.	**119**
SB-18A-1	07/25/19	1	Approximately 1 foot from the easterly side of the church building (sanctuary) at 875 West Orange Grove Avenue.	**13.8**
SB-18A-3	07/25/19	3	Approximately 1 foot from the easterly side of the church building (sanctuary) at 875 West Orange Grove Avenue.	**1.00**
SB-18A-5	07/25/19	5	Approximately 1 foot from the easterly side of the church building (sanctuary) at 875 West Orange Grove Avenue.	**7.00**
SB-18B-0	07/25/19	0	Approximately 2.5 feet from the easterly side of the church building (sanctuary) at 875 West Orange Grove Avenue.	**120**
SB-18B-1	07/25/19	1	Approximately 2.5 feet from the easterly side of the church building (sanctuary) at 875 West Orange Grove Avenue.	**28.5**
SB-18B-3	07/25/19	3	Approximately 2.5 feet from the easterly side of the church building (sanctuary) at 875 West Orange Grove Avenue.	**11.3**
SB-18B-5	07/25/19	5	Approximately 2.5 feet from the easterly side of the church building (sanctuary) at 875 West Orange Grove Avenue.	**10.3**
SB-18C-0	07/25/19	0	Approximately 5 feet from the easterly side of the church building (sanctuary) at 875 West Orange Grove Avenue.	**29.5**
SB-18C-1	07/25/19	1	Approximately 5 feet from the easterly side of the church building (sanctuary) at 875 West Orange Grove Avenue.	**44.8**
SB-18C-3	07/25/19	3	Approximately 5 feet from the easterly side of the church building (sanctuary) at 875 West Orange Grove Avenue.	**15.3**
SB-18C-5	07/25/19	5	Approximately 5 feet from the easterly side of the church building (sanctuary) at 875 West Orange Grove Avenue.	**10.0**

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Proposed Residential Development, 861, 863, and 875 West Orange Grove Avenue, Pomona, California 91768

Sample ID	Date Sampled	Sample Depth [1] (feet)	Location	Total Pb [2] (mg/kg)
SOIL BORING SB-19				
SB-19A-0	07/25/19	0	Approximately 1 foot from the easterly side of the church building (sanctuary, near roof drain) at 875 West Orange Grove Avenue.	**47.0**
SB-19A-1	07/25/19	1	Approximately 1 foot from the easterly side of the church building (sanctuary, near roof drain) at 875 West Orange Grove Avenue.	**16.5**
SB-19A-3	07/25/19	3	Approximately 1 foot from the easterly side of the church building (sanctuary, near roof drain) at 875 West Orange Grove Avenue.	**16.3**
SB-19B-0	07/25/19	0	Approximately 3 feet from the easterly side of the church building (sanctuary, near roof drain) at 875 West Orange Grove Avenue.	**54.8**
SB-19B-1	07/25/19	1	Approximately 3 feet from the easterly side of the church building (sanctuary, near roof drain) at 875 West Orange Grove Avenue.	**24.8**
SB-19B-3	07/25/19	3	Approximately 3 feet from the easterly side of the church building (sanctuary, near roof drain) at 875 West Orange Grove Avenue.	**12.3**
SB-19C-0	07/25/19	0	Approximately 5 feet from the easterly side of the church building (sanctuary, near roof drain) at 875 West Orange Grove Avenue.	**133**
SB-19C-1	07/25/19	1	Approximately 5 feet from the easterly side of the church building (sanctuary, near roof drain) at 875 West Orange Grove Avenue.	**12.5**
SB-19C-3	07/25/19	3	Approximately 5 feet from the easterly side of the church building (sanctuary, near roof drain) at 875 West Orange Grove Avenue.	**16.3**
SB-19C-5	07/25/19	5	Approximately 5 feet from the easterly side of the church building (sanctuary, near roof drain) at 875 West Orange Grove Avenue.	**13.3**
SOIL BORING SB-20				
SB-20A-0	07/25/19	0	Approximately 1 foot from the southerly side of the church building (sanctuary, in planter) at 875 West Orange Grove Avenue.	**46.0**
SB-20A-1	07/25/19	1	Approximately 1 foot from the southerly side of the church building (sanctuary, in planter) at 875 West Orange Grove Avenue.	**17.3**
SB-20A-3	07/25/19	3	Approximately 1 foot from the southerly side of the church building (sanctuary, in planter) at 875 West Orange Grove Avenue.	**21.3**
SB-20B-0	07/25/19	0	Approximately 3 feet from the southerly side of the church building (sanctuary, in planter) at 875 West Orange Grove Avenue.	**40.3**
SB-20B-1	07/25/19	1	Approximately 3 feet from the southerly side of the church building (sanctuary, in planter) at 875 West Orange Grove Avenue.	**19.3**
SB-20B-3	07/25/19	3	Approximately 3 feet from the southerly side of the church building (sanctuary, in planter) at 875 West Orange Grove Avenue.	**12.3**
SB-20C-0	07/25/19	0	Approximately 4 feet from the southerly side of the church building (sanctuary, in planter) at 875 West Orange Grove Avenue.	**85.0**
SB-20C-1	07/25/19	1	Approximately 4 feet from the southerly side of the church building (sanctuary, in planter) at 875 West Orange Grove Avenue.	**15.0**
SB-20C-3	07/25/19	3	Approximately 4 feet from the southerly side of the church building (sanctuary, in planter) at 875 West Orange Grove Avenue.	**17.8**
SOIL BORING SB-21				
SB-21A-0	07/24/19	0	Approximately 1.5 foot from the westerly side of the church building (side sanctuary entrance) at 875 West Orange Grove Avenue.	**42.5**
SB-21A-1	07/24/19	1	Approximately 1.5 foot from the westerly side of the church building (side sanctuary entrance) at 875 West Orange Grove Avenue.	**25.3**
SB-21A-3	07/24/19	3	Approximately 1.5 foot from the westerly side of the church building (side sanctuary entrance) at 875 West Orange Grove Avenue.	**7.25**
SB-21A-5	07/24/19	5	Approximately 1.5 foot from the westerly side of the church building (side sanctuary entrance) at 875 West Orange Grove Avenue.	**5.00**
SB-21B-0	07/24/19	0	Approximately 3 feet from the westerly side of the church building (side sanctuary entrance) at 875 West Orange Grove Avenue.	**50.0**
SB-21B-1	07/24/19	1	Approximately 3 feet from the westerly side of the church building (side sanctuary entrance) at 875 West Orange Grove Avenue.	**15.3**
SB-21B-3	07/24/19	3	Approximately 3 feet from the westerly side of the church building (side sanctuary entrance) at 875 West Orange Grove Avenue.	**9.25**
SB-21B-4.5	07/24/19	4.5	Approximately 3 feet from the westerly side of the church building (side sanctuary entrance) at 875 West Orange Grove Avenue.	**7.75**
SB-21C-0	07/24/19	0	Approximately 5 feet from the westerly side of the church building (side sanctuary entrance) at 875 West Orange Grove Avenue.	**55.8**
SB-21C-1	07/24/19	1	Approximately 5 feet from the westerly side of the church building (side sanctuary entrance) at 875 West Orange Grove Avenue.	**10.5**
SB-21C-3	07/24/19	3	Approximately 5 feet from the westerly side of the church building (side sanctuary entrance) at 875 West Orange Grove Avenue.	**11.3**
SB-21C-5	07/24/19	5	Approximately 5 feet from the westerly side of the church building (side sanctuary entrance) at 875 West Orange Grove Avenue.	**5.25**
SOIL BORING SB-22				
SB-22A-0	07/24/19	0	Approximately 1 foot from the westerly side of the church building at 875 West Orange Grove Avenue.	**59.5**
SB-22A-1	07/24/19	1	Approximately 1 foot from the westerly side of the church building at 875 West Orange Grove Avenue.	**36.0**
SB-22A-3	07/24/19	3	Approximately 1.5 foot from the westerly side of the church building at 875 West Orange Grove Avenue.	**11.8**
SB-22B-0	07/24/19	0	Approximately 3 feet from the westerly side of the church building at 875 West Orange Grove Avenue.	**39.5**
SB-22B-1	07/24/19	1	Approximately 3 feet from the westerly side of the church building at 875 West Orange Grove Avenue.	**17.8**
SB-22B-3	07/24/19	3	Approximately 3 feet from the westerly side of the church building at 875 West Orange Grove Avenue.	**10.8**
SB-22C-0	07/24/19	0	Approximately 5 feet from the westerly side of the church building at 875 West Orange Grove Avenue.	**60.5**
SB-22C-1	07/24/19	1	Approximately 5 feet from the westerly side of the church building at 875 West Orange Grove Avenue.	**20.3**
SB-22C-3	07/24/19	3	Approximately 5 feet from the westerly side of the church building at 875 West Orange Grove Avenue.	**11.3**

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Sample ID	Date Sampled	Sample Depth [1] (feet)	Location	Total Pb [2] (mg/kg)
SOIL BORING SB-23				
SB-23A-0	07/24/19	0	Approximately 1 feet from the westerly side of the church building (covered patio) at 875 West Orange Grove Avenue.	**23.8**
SB-23A-1	07/24/19	1	Approximately 1 feet from the westerly side of the church building (covered patio) at 875 West Orange Grove Avenue.	**23.5**
SB-23A-3	07/24/19	3	Approximately 1 feet from the westerly side of the church building (covered patio) at 875 West Orange Grove Avenue.	**8.75**
SB-23A-5	07/24/19	5	Approximately 1 feet from the westerly side of the church building (covered patio) at 875 West Orange Grove Avenue.	**9.25**
SB-23B-0	07/24/19	0	Approximately 4 feet from the westerly side of the church building (covered patio) at 875 West Orange Grove Avenue.	**24.8**
SB-23B-1	07/24/19	1	Approximately 4 feet from the westerly side of the church building (covered patio) at 875 West Orange Grove Avenue.	**20.8**
SB-23B-3	07/24/19	3	Approximately 3 feet from the westerly side of the church building (covered patio) at 875 West Orange Grove Avenue.	**24.5**
SB-23C-0	07/24/19	0	Approximately 5 feet from the westerly side of the church building (covered patio) at 875 West Orange Grove Avenue.	**28.8**
SB-23C-1	07/24/19	1	Approximately 5 feet from the westerly side of the church building (covered patio) at 875 West Orange Grove Avenue.	**32.0**
SB-23C-3	07/24/19	3	Approximately 5 feet from the westerly side of the church building (covered patio) at 875 West Orange Grove Avenue.	**11.8**
SB-23C-5	07/24/19	5	Approximately 5 feet from the westerly side of the church building (covered patio) at 875 West Orange Grove Avenue.	**11.3**
SOIL BORING SB-24				
SB-24A-0	07/24/19	0	Approximately 3 feet from the westerly side of the church building (covered patio, near roof drain) at 875 West Orange Grove Avenue.	**22.8**
SB-24A-1	07/24/19	1	Approximately 3 feet from the westerly side of the church building (covered patio, near roof drain) at 875 West Orange Grove Avenue.	**29.3**
SB-24A-3	07/24/19	3	Approximately 1 foot from the westerly side of the church building (covered patio, near roof drain) at 875 West Orange Grove Avenue.	**20.5**
SB-24B-0	07/24/19	0	Approximately 5 feet from the westerly side of the church building (covered patio, near roof drain) at 875 West Orange Grove Avenue.	**27.0**
SB-24B-1	07/24/19	1	Approximately 5 feet from the westerly side of the church building (covered patio, near roof drain) at 875 West Orange Grove Avenue.	**17.0**
SB-24B-3	07/24/19	3	Approximately 5 feet from the westerly side of the church building (covered patio, near roof drain) at 875 West Orange Grove Avenue.	**19.8**
SB-24C-0	07/24/19	0	Approximately 7 feet from the westerly side of the church building (covered patio, near roof drain) at 875 West Orange Grove Avenue.	**35.0**
SB-24C-1	07/24/19	1	Approximately 7 feet from the westerly side of the church building (covered patio, near roof drain) at 875 West Orange Grove Avenue.	**29.3**
SB-24C-3	07/24/19	3	Approximately 7 feet from the westerly side of the church building (covered patio, near roof drain) at 875 West Orange Grove Avenue.	**22.0**
SOIL BORING SB-25				
SB-25A-0	07/24/19	0	Approximately 1 feet from the westerly side of the church building (covered patio) at 875 West Orange Grove Avenue.	**24.8**
SB-25A-1	07/24/19	1	Approximately 1 feet from the westerly side of the church building (covered patio) at 875 West Orange Grove Avenue.	**25.0**
SB-25A-3	07/24/19	3	Approximately 1 feet from the westerly side of the church building (covered patio) at 875 West Orange Grove Avenue.	**22.5**
SB-25A-5	07/24/19	5	Approximately 1 feet from the westerly side of the church building (covered patio) at 875 West Orange Grove Avenue.	**12.3**
SB-25B-0	07/25/19	0	Approximately 3 feet from the westerly side of the church building (covered patio) at 875 West Orange Grove Avenue.	**23.8**
SB-25B-1	07/25/19	1	Approximately 3 feet from the westerly side of the church building (covered patio) at 875 West Orange Grove Avenue.	**26.0**
SB-25B-3	07/25/19	3	Approximately 3 feet from the westerly side of the church building (covered patio) at 875 West Orange Grove Avenue.	**22.8**
SB-25B-4.5	07/25/19	4.5	Approximately 3 feet from the westerly side of the church building (covered patio) at 875 West Orange Grove Avenue.	**21.8**
SB-25C-0	07/24/19	0	Approximately 5 feet from the westerly side of the church building (covered patio) at 875 West Orange Grove Avenue.	**5.25**
SB-25C-1	07/24/19	1	Approximately 5 feet from the westerly side of the church building (covered patio) at 875 West Orange Grove Avenue.	**31.0**
SB-25C-3	07/24/19	3	Approximately 5 feet from the westerly side of the church building (covered patio) at 875 West Orange Grove Avenue.	**22.3**
SB-25C-4	07/24/19	4	Approximately 5 feet from the westerly side of the church building (covered patio) at 875 West Orange Grove Avenue.	**24.3**

Table 2
Soil Sample Analytical Results for Total Lead in Soil Borings
Proposed Residential Development, 861, 863, and 875 West Orange Grove Avenue, Pomona, California 91768

Sample ID	Date Sampled	Sample Depth [1] (feet)	Location	Total Pb [2] (mg/kg)
SOIL BORING SB-26				
SB-26A-0	07/25/19	0	Approximately 1 foot from the westerly side of the church building at 875 West Orange Grove Avenue.	**39.5**
SB-26A-1	07/25/19	1	Approximately 1 foot from the westerly side of the church building at 875 West Orange Grove Avenue.	**29.5**
SB-26A-3	07/25/19	3	Approximately 1 foot from the westerly side of the church building at 875 West Orange Grove Avenue.	**22.3**
SB-26A-5	07/25/19	5	Approximately 1 foot from the westerly side of the church building at 875 West Orange Grove Avenue.	**26.5**
SB-26B-0	07/25/19	0	Approximately 3 feet from the westerly side of the church building at 875 West Orange Grove Avenue.	**36.5**
SB-26B-1	07/25/19	1	Approximately 3 feet from the westerly side of the church building at 875 West Orange Grove Avenue.	**30.0**
SB-26B-3	07/25/19	3	Approximately 3 feet from the westerly side of the church building at 875 West Orange Grove Avenue.	**22.3**
SB-26B-5	07/25/19	5	Approximately 3 feet from the westerly side of the church building at 875 West Orange Grove Avenue.	**16.8**
SB-26C-0	07/25/19	0	Approximately 5 feet from the westerly side of the church building at 875 West Orange Grove Avenue.	**16.0**
SB-26C-1	07/25/19	1	Approximately 5 feet from the westerly side of the church building at 875 West Orange Grove Avenue.	**12.3**
SB-26C-3	07/25/19	3	Approximately 5 feet from the westerly side of the church building at 875 West Orange Grove Avenue.	**15.5**
SB-26C-5	07/25/19	5	Approximately 5 feet from the westerly side of the church building at 875 West Orange Grove Avenue.	**16.5**
SOIL BORING SB-27				
SB-27A-0	07/25/19	0	Approximately 1 foot from the northerly side of the church building (sand box playground) at 875 West Orange Grove Avenue.	**12.0**
SB-27A-1	07/25/19	1	Approximately 1 foot from the northerly side of the church building (sand box playground) at 875 West Orange Grove Avenue.	**24.3**
SB-27A-3	07/25/19	3	Approximately 1 foot from the northerly side of the church building (sand box playground) at 875 West Orange Grove Avenue.	**19.5**
SB-27A-5	07/25/19	5	Approximately 1 foot from the northerly side of the church building (sand box playground) at 875 West Orange Grove Avenue.	**17.8**
SB-27B-0	07/25/19	0	Approximately 3 feet from the northerly side of the church building (sand box playground) at 875 West Orange Grove Avenue.	**11.0**
SB-27B-1	07/25/19	1	Approximately 3 feet from the northerly side of the church building (sand box playground) at 875 West Orange Grove Avenue.	**28.8**
SB-27B-3	07/25/19	3	Approximately 3 feet from the northerly side of the church building (sand box playground) at 875 West Orange Grove Avenue.	**16.0**
SB-27B-5	07/25/19	5	Approximately 3 feet from the northerly side of the church building (sand box playground) at 875 West Orange Grove Avenue.	**14.5**
SB-27C-0	07/25/19	0	Approximately 5 feet from the northerly side of the church building (sand box playground) at 875 West Orange Grove Avenue.	**6.50**
SB-27C-1	07/25/19	1	Approximately 5 feet from the northerly side of the church building (sand box playground) at 875 West Orange Grove Avenue.	**26.3**
SB-27C-3	07/25/19	3	Approximately 5 feet from the northerly side of the church building (sand box playground) at 875 West Orange Grove Avenue.	**21.0**
SB-27C-5	07/25/19	5	Approximately 5 feet from the northerly side of the church building (sand box playground) at 875 West Orange Grove Avenue.	**15.5**
SOIL BORING SB-28				
SB-28A-0	07/25/19	0	Approximately 1 foot from the easterly side of the church building (sand box playground) at 875 West Orange Grove Avenue.	**6.50**
SB-28A-1	07/25/19	1	Approximately 1 foot from the easterly side of the church building (sand box playground) at 875 West Orange Grove Avenue.	**28.5**
SB-28A-3	07/25/19	3	Approximately 1 foot from the easterly side of the church building (sand box playground) at 875 West Orange Grove Avenue.	**17.5**
SB-28A-5	07/25/19	5	Approximately 1 foot from the easterly side of the church building (sand box playground) at 875 West Orange Grove Avenue.	**23.8**
SB-28B-0	07/25/19	0	Approximately 3 feet from the easterly side of the church building (sand box playground) at 875 West Orange Grove Avenue.	**11.8**
SB-28B-1	07/25/19	1	Approximately 3 feet from the easterly side of the church building (sand box playground) at 875 West Orange Grove Avenue.	**27.5**
SB-28B-3	07/25/19	3	Approximately 3 feet from the easterly side of the church building (sand box playground) at 875 West Orange Grove Avenue.	**17.5**
SB-28B-5	07/25/19	5	Approximately 3 feet from the easterly side of the church building (sand box playground) at 875 West Orange Grove Avenue.	**17.8**
SB-28C-0	07/25/19	0	Approximately 5 feet from the easterly side of the church building (sand box playground) at 875 West Orange Grove Avenue.	**2.75**
SB-28C-1	07/25/19	1	Approximately 5 feet from the easterly side of the church building (sand box playground) at 875 West Orange Grove Avenue.	**29.0**
SB-28C-3	07/25/19	3	Approximately 5 feet from the easterly side of the church building (sand box playground) at 875 West Orange Grove Avenue.	**15.3**
SB-28C-5	07/25/19	5	Approximately 5 feet from the easterly side of the church building (sand box playground) at 875 West Orange Grove Avenue.	**9.00**

Table 2
Soil Sample Analytical Results for Total Lead in Soil Borings
Proposed Residential Development, 861, 863, and 875 West Orange Grove Avenue, Pomona, California 91768

Sample ID	Date Sampled	Sample Depth [1] (feet)	Location	Total Pb [2] (mg/kg)
SOIL BORING SB-29				
SB-29A-0	07/26/19	0	Approximately 1 foot from concrete walk along the northerly side of the church building at 875 West Orange Grove Avenue.	**44.0**
SB-29A-1	07/26/19	1	Approximately 1 foot from concrete walk along the northerly side of the church building at 875 West Orange Grove Avenue.	**12.7**
SB-29A-3	07/26/19	3	Approximately 1 foot from concrete walk along the northerly side of the church building at 875 West Orange Grove Avenue.	**4.84**
SB-29A-5	07/26/19	5	Approximately 1 foot from concrete walk along the northerly side of the church building at 875 West Orange Grove Avenue.	**8.48**
SB-29B-0	07/26/19	0	Approximately 3 feet from concrete walk along the northerly side of the church building at 875 West Orange Grove Avenue.	**33.1**
SB-29B-1	07/26/19	1	Approximately 3 feet from concrete walk along the northerly side of the church building at 875 West Orange Grove Avenue.	**12.5**
SB-29B-3	07/26/19	3	Approximately 3 feet from concrete walk along the northerly side of the church building at 875 West Orange Grove Avenue.	**5.59**
SB-29B-4.5	07/26/19	4.5	Approximately 3 feet from concrete walk along the northerly side of the church building at 875 West Orange Grove Avenue.	**6.64**
SB-29C-0	07/26/19	0	Approximately 5 feet from concrete walk along the northerly side of the church building at 875 West Orange Grove Avenue.	**28.2**
SB-29C-1	07/26/19	1	Approximately 5 feet from concrete walk along the northerly side of the church building at 875 West Orange Grove Avenue.	**9.64**
SB-29C-3	07/26/19	3	Approximately 5 feet from concrete walk along the northerly side of the church building at 875 West Orange Grove Avenue.	**6.50**
SB-29C-5	07/26/19	5	Approximately 5 feet from concrete walk along the northerly side of the church building at 875 West Orange Grove Avenue.	**5.86**
SOIL BORING SB-30				
SB-30A-0	07/26/19	0	Approximately 1 foot from concrete walk along the westerly side of the church building at 875 West Orange Grove Avenue.	**18.8**
SB-30A-1	07/26/19	1	Approximately 1 foot from concrete walk along the westerly side of the church building at 875 West Orange Grove Avenue.	**9.64**
SB-30A-3	07/26/19	3	Approximately 1 foot from concrete walk along the westerly side of the church building at 875 West Orange Grove Avenue.	**6.38**
SB-30A-5	07/26/19	5	Approximately 1 foot from concrete walk along the westerly side of the church building at 875 West Orange Grove Avenue.	**5.50**
SB-30B-0	07/26/19	0	Approximately 3 feet from concrete walk along the westerly side of the church building at 875 West Orange Grove Avenue.	**9.81**
SB-30B-1	07/26/19	1	Approximately 3 feet from concrete walk along the westerly side of the church building at 875 West Orange Grove Avenue.	**10.5**
SB-30B-3	07/26/19	3	Approximately 3 feet from concrete walk along the westerly side of the church building at 875 West Orange Grove Avenue.	**5.84**
SB-30B-5	07/26/19	5	Approximately 3 feet from concrete walk along the westerly side of the church building at 875 West Orange Grove Avenue.	**6.07**
SB-30C-0	07/26/19	0	Approximately 5 feet from concrete walk along the westerly side of the church building at 875 West Orange Grove Avenue.	**8.62**
SB-30C-1	07/26/19	1	Approximately 5 feet from concrete walk along the westerly side of the church building at 875 West Orange Grove Avenue.	**10.3**
SB-30C-3	07/26/19	3	Approximately 5 feet from concrete walk along the westerly side of the church building at 875 West Orange Grove Avenue.	**5.77**
SB-30C-5	07/26/19	5	Approximately 5 feet from concrete walk along the westerly side of the church building at 875 West Orange Grove Avenue.	**6.11**
SOIL BORING SB-31				
SB-31A-0	07/26/19	0	Approximately 1 foot from easterly side of main entrance concrete walk of the church building at 875 West Orange Grove Avenue.	**33.3**
SB-31A-1	07/26/19	1	Approximately 1 foot from easterly side of main entrance concrete walk of the church building at 875 West Orange Grove Avenue.	**11.7**
SB-31A-3	07/26/19	3	Approximately 1 foot from easterly side of main entrance concrete walk of the church building at 875 West Orange Grove Avenue.	**4.31**
SB-31A-5	07/26/19	5	Approximately 1 foot from easterly side of main entrance concrete walk of the church building at 875 West Orange Grove Avenue.	**3.82**
SB-31B-0	07/26/19	0	Approximately 3 feet from easterly side of main entrance concrete walk of the church building at 875 West Orange Grove Avenue.	**27.9**
SB-31B-1	07/26/19	1	Approximately 3 feet from easterly side of main entrance concrete walk of the church building at 875 West Orange Grove Avenue.	**5.85**
SB-31B-3	07/26/19	3	Approximately 3 feet from easterly side of main entrance concrete walk of the church building at 875 West Orange Grove Avenue.	**4.44**
SB-31B-5	07/26/19	5	Approximately 3 feet from easterly side of main entrance concrete walk of the church building at 875 West Orange Grove Avenue.	**4.25**
SB-31C-0	07/26/19	0	Approximately 5 feet from easterly side of main entrance concrete walk of the church building at 875 West Orange Grove Avenue.	**29.9**
SB-31C-1	07/26/19	1	Approximately 5 feet from easterly side of main entrance concrete walk of the church building at 875 West Orange Grove Avenue.	**18.7**
SB-31C-3	07/26/19	3	Approximately 5 feet from easterly side of main entrance concrete walk of the church building at 875 West Orange Grove Avenue.	**4.11**
SB-31C-5	07/26/19	5	Approximately 5 feet from easterly side of main entrance concrete walk of the church building at 875 West Orange Grove Avenue.	**3.69**
California Department of Toxic Substances Control Soil Screening Level for Residential Soils				**80.0**

Notes:
[1] Depths measured in feet below ground surface.
[2] Analyzed using United States Environmental Protection Agency (USEPA) Method 6010B.
ID = identification
Pb = lead
mg/kg = milligrams per kilogram
ND<0.500 = not detected (ND) at the specified laboratory reporting limit (RL)
45.8 = analytical results above the laboratory RL are shown in **BOLD**

APPENDIX A

Completed ASTM E1527-13 User Questionnaire

DRAFT

861, 863, and 875 West Orange Grove Avenue
(APNs 8358-009-006, -009, and -010)
Pomona, California

LOR Project No. 33557.2

E1527–13

USER QUESTIONNAIRE

INTRODUCTION

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "*Brownfields Amendments*"), the *user* must provide the following information (if available) to the *environmental professional*. Failure to provide this information could result in a determination that "*all appropriate inquiry*" is not complete.

(1.) Environmental liens that are filed or recorded against the property (40 CFR 312.25).
Are you aware of any environmental cleanup liens against the *property* that are filed or recorded under federal, tribal, state or local law?

I am not aware of any such liens.

(2.) Activity and use limitations that are in place on the property or that have been filed or recorded against the property (40 CFR 312.26(a)(1)(v) and (vi)).
Are you aware of any activity and land use limitations (AULs), such as *engineering controls*, land use restrictions, or *institutional controls* that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state, or local law?

I am not aware of any activity and land use limitations.

(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).
As the user of this Phase I Environmental Site Assessment (ESA) do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former *occupants* of the *property* or an adjoining *property* so that you would have specialized knowledge of the chemicals and processes used by this type of business?

(4.) Relationship of the purchase price to the fair market value of the *property* if it were not contaminated (40 CFR 312.29).

Does the purchase price being paid for this *property* reasonably reflect the fair market value of the *property*? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*?

(5.) Commonly known or *reasonably ascertainable* information about the *property* (40 CFR 312.30).

Are you aware of commonly known or reasonably ascertainable information about the *property* that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example, as *user*, (a.) Do you know the past uses of the *property*? (b.) Do you know of specific chemicals that are present or once were present at the *property*? (c.) Do you know of spills or other chemical releases that have taken place at the *property*? (d.) Do you know of any environmental cleanups that have taken place at the *property*?

(a) Prior to use as a church, this was an orange grove
(b) Asbestos is present in the roofing tiles

(continued on page 4)

6.) The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

As the *user* of this *ESA*, based on your knowledge and experience related to the *property*, are there any *obvious* indicators that point to the presence or likely presence of contamination at the *property*?

There are shingles on that sanctuary roof that contain asbestos.

In addition to the above information, certain information should be collected, if available, and provided to the *environmental professional* selected to conduct the Phase I ESA. This information is intended to assist the *environmental professional*, but is not necessarily required to qualify for one of the LLPs. The information includes:

(a) the reason why the Phase I ESA is required and/or is being performed:

(b) the type of *property* and type of *property* transaction, for example, sale, purchase, exchange, etc.:

(c) the complete and correct address for the *property* (a map or other documentation showing the *property* location and boundaries is helpful):

(d) the scope of services desired for the Phase I ESA (including whether any parties to the *property* transaction may have a required standard scope of services on whether any considerations beyond the requirements of Practice E1527 are to be considered):

(e) identification of all parties who will rely on the Phase I ESA report:

(f) identification of the site contact and how the contact can be reached:

(g) any special terms and conditions which must be agreed upon by the *environmental professional*:

(h) any other knowledge or experience with the property that may be pertinent to the *environmental professional* (for example, copies of any available prior *environmental site assessment reports*, documents, correspondence, etc., concerning the *property* and its environmental condition):

861, 863, and 875 West Orange Grove Avenue
(APNs 8358-009-006, -009, and -010)
Pomona, California

LOR Project No. 33557.2

ADDITIONAL SPACE FOR ANSWERS (if needed):

5:

b. continued.
Paint + gasoline are stored on the property in small containers. No bulk storage.

c. I do not believe that there have been any spills or other chemical releases.

d. I do not believe that there have been any environmental cleanups on this property

The *User* Questionnaire was completed by:

Name:	
Title:	
Firm:	
Address:	
Phone:	
Date:	
User's relationship to the *property*:	

Copies of the completed questionnaire will be filed at:

LOR Geotechnical Group, Inc.; 6121 Quail Valley Court; Riverside, California 92507

Copies of the completed questionnaire may be mailed or delivered to:

LOR Geotechnical Group, Inc.; 6121 Quail Valley Court; Riverside, California 92507

User represents that to the best of their knowledge, the above statements and facts are true and correct, and to the best of their actual knowledge, no material facts have been suppressed or misstated.

Signature: Gerald R Davis Date: 7-5-2019

APPENDIX B

EDR Sanborn Map Report

DRAFT

APNs 8358-009-006, -009, & -010
875 West Orange Grove Avenue
Pomona, CA 91768

Inquiry Number: 5697522.3
June 25, 2019

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

06/25/19

Site Name:

APNs 8358-009-006, -009, & -(
875 West Orange Grove Avenu
Pomona, CA 91768
EDR Inquiry # 5697522.3

Client Name:

LOR Geotechnical Group, Inc.
6121 Quail Valley Court
Riverside, CA 92507
Contact: Mathew Hunt

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by LOR Geotechnical Group, 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 # 31A9-419A-8A41

PO # 33557.2

Project APNs 8358-009-006, -009, -010

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 31A9-419A-8A41

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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APPENDIX C

EDR Historical Aerial Photographs

DRAFT

APNs 8358-009-006, -009, & -010

875 West Orange Grove Avenue

Pomona, CA 91768

Inquiry Number: 5697522.5

June 25, 2019

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

06/25/19

Site Name:

APNs 8358-009-006, -009, & -(
875 West Orange Grove Avenu
Pomona, CA 91768
EDR Inquiry # 5697522.5

Client Name:

LOR Geotechnical Group, Inc.
6121 Quail Valley Court
Riverside, CA 92507
Contact: Mathew Hunt

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
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
2002	1"=500'	Flight Date: June 05, 2002	USDA
1994	1"=500'	Acquisition Date: June 01, 1994	USGS/DOQQ
1989	1"=500'	Flight Date: August 03, 1989	USDA
1981	1"=500'	Flight Date: February 17, 1981	EDR Proprietary Brewster Pacific
1977	1"=500'	Flight Date: April 25, 1977	EDR Proprietary Brewster Pacific
1975	1"=500'	Flight Date: August 01, 1975	USGS
1966	1"=500'	Flight Date: April 16, 1966	USGS
1964	1"=500'	Flight Date: July 28, 1964	USGS
1953	1"=500'	Flight Date: February 11, 1953	USDA
1948	1"=500'	Flight Date: July 10, 1948	USGS
1938	1"=500'	Flight Date: May 24, 1938	USDA
1928	1"=500'	Flight Date: January 01, 1928	FAIR

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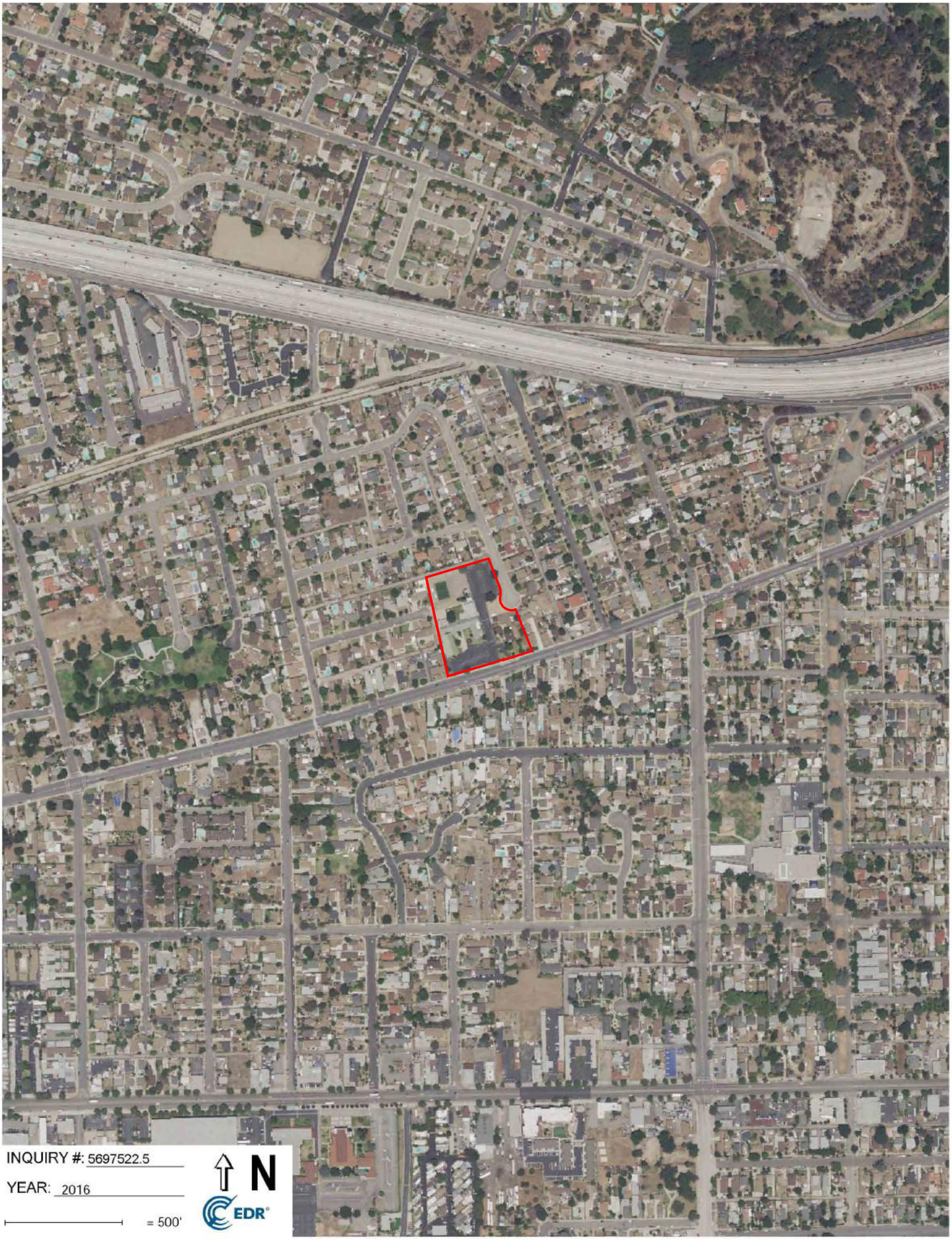
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EDR

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YEAR: 2012
= 500'
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INQUIRY #: 5697522.5
YEAR: 2009
= 500'
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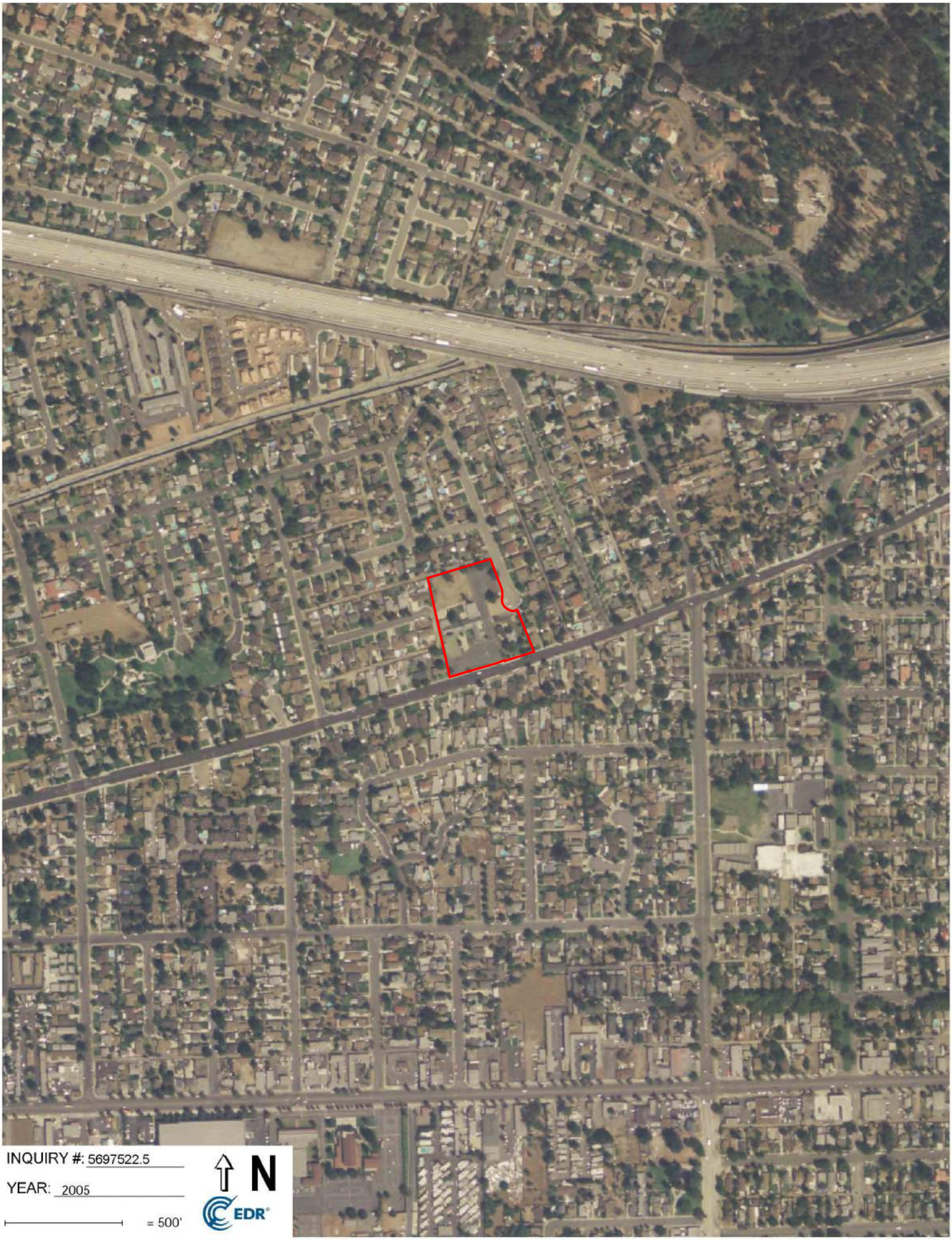
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EDR

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YEAR: 2002
= 500'
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EDR

INQUIRY #: 5697522.5
YEAR: 1994
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EDR

INQUIRY #: 5697522.5
YEAR: 1989
= 500'
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EDR

INQUIRY #: 5697522.5
YEAR: 1981
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EDR

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EDR

INQUIRY #: 5697522.5
YEAR: 1975
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EDR

INQUIRY #: 5697522.5
YEAR: 1966
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N
EDR

INQUIRY #: 5697522.5
YEAR: 1964
= 500'
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EDR

INQUIRY #: 5697522.5
YEAR: 1953
= 500'
N
EDR

INQUIRY #: 5697522.5
YEAR: 1948
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EDR

INQUIRY #: 5697522.5
YEAR: 1938
= 500'
N
EDR

INQUIRY #: 5697522.5
YEAR: 1928
= 500'
N
EDR

APPENDIX D

Color Site Photographs

DRAFT

Photo 1 - View facing east-northeast from the south/southwest corner of the subject site. To the right is West Orange Grove Avenue. The first sign to the right is associated with Eden Mission Church, a Korean church group, one of three that uses the onsite church facilities.

Photo 2 - Northerly view to the left of that shown in the previous photograph, looking towards the onsite church building. The southwest extension of the church building, shown in the center and left includes the sanctuary, and the southeast extension is to the right, which includes the fellowship hall.

Photo 3 - View facing north-northwest towards the main entrance, situated immediately left of center. Another entrance is located right of center. The onsite church building includes a chapel, fellowship hall, a kitchen, offices, storage rooms and classrooms, meeting room and extension of the fellowship hall, and sanctuary.

Photo 4 - View to the right inside the entrance east of the main entrance, shown in the previous photograph along the south side of the onsite church building. The open door on the left is the Church of the Brethren (essential namesake of the main onsite congregation and owner of the subject site) District Office.

Photo 5 - View to the left of that shown in the previous photograph, facing north-northwest along the middle of the onsite church building. Down the hall shown and the one leading to the right are offices, storage rooms, and classrooms.

Photo 6 - View to the left of that shown in the previous photograph, looking down a hall lead to bathrooms, chapel, main entrance, and sanctuary.

Photo 7 - View inside the chapel, situated in the northwest portion of the onsite church building.

Photo 8 - View inside of and towards the south end of the sanctuary, situated in the west central and southwest portions of the onsite church building.

Photo 9 - View inside the small basement beneath the south end of the onsite church building sanctuary. The basement includes a natural gas-fired furnace and storage of items, including sound equipment, chairs, and window screens.

Photo 10 - View inside the onsite church building fellowship hall, looking towards the south end. This hall is located at the end of the hall shown in **Photo 4**.

Photo 11 - View to the left of that shown in the previous photograph, looking across the north end of the fellowship hall. Beyond the back wall is the kitchen, and to the left is a meeting room which can serve as an extension for the fellowship hall.

Photo 12 - View inside the meeting room, the south entrance to which is shown to the left in the previous photograph.

Photo 13 - Northerly view at the west side of the southwest corner of the onsite church building. Inside the doors to the right is the church sanctuary. In the grass to the left is a white-colored, hardened material of some kind.

Photo 14 - Northerly view along the central part of the west side of the onsite church building. The utility pole shown in the foreground includes a mounted electrical transformer with no signs of leakage. Storage cabinets are present along the west side of the church building to the right.

Photo 15 - View facing south-southeast from the west side of the northwest portion of the subject site, approximately 60 feet from the onsite church building in the background. The fenced area adjacent to the church building is a playground area that includes swings, a slide, and other play equipment in a “sandbox” area.

Photo 16 - View to the left of that shown in the previous photograph, facing east. Beyond the fence to the right is more playground area along the north side of the central portion of the onsite church building. The corridor to the left, between the fences, is roughly in line with the offsite Ashport Street, adjacent to the west.

Photo 17 - View to the west from the east/southeast corner of the soccer field area in the northwest portion of the subject site. The green fence to the left is the same shown to the left in the previous photograph.

Photo 18 - View to the right of that shown in the previous photograph, facing north-northwest. The remainder of the soccer field area is shown. This area includes artificial turf, bleachers, goal posts, and a trash can.

Photo 19 - Southeasterly view outside of and adjacent to the north/northeast corner of the soccer field area shown in the previous two photographs. In the background to the right of center is a tall artificial tree with cellular communication antennas, located within and near associated equipment enclosures.

Photo 20 - View to the left of that shown in the previous photograph, looking east across the north end of the subject site. An alleyway is located to the left (north) of the fence to the left.

Photo 21 - View facing west-southwest from the north/northeast corner of the subject site. To the right is an alleyway, beyond which are single-family residences.

Photo 22 - View to the left of that shown in the previous photograph, facing south-southwest towards the onsite cellular communication tower and associated equipment enclosures and church building beyond. At the bottom of the photograph is an asphalt walkway that leads to a break in the subject site perimeter fencing at the north/northeast corner.

Photo 23 - View to the left of that shown in the previous photograph, facing south-southeast. Offsite to the left is Casa Hermosa Drive, along which are single-family residences.

Photo 24 - View facing west-southwest towards the cellular communication tower and associated equipment enclosures in the north central portion of the subject site. The taller “tree” to the left is a cellular communication tower decorated to look like a tree.

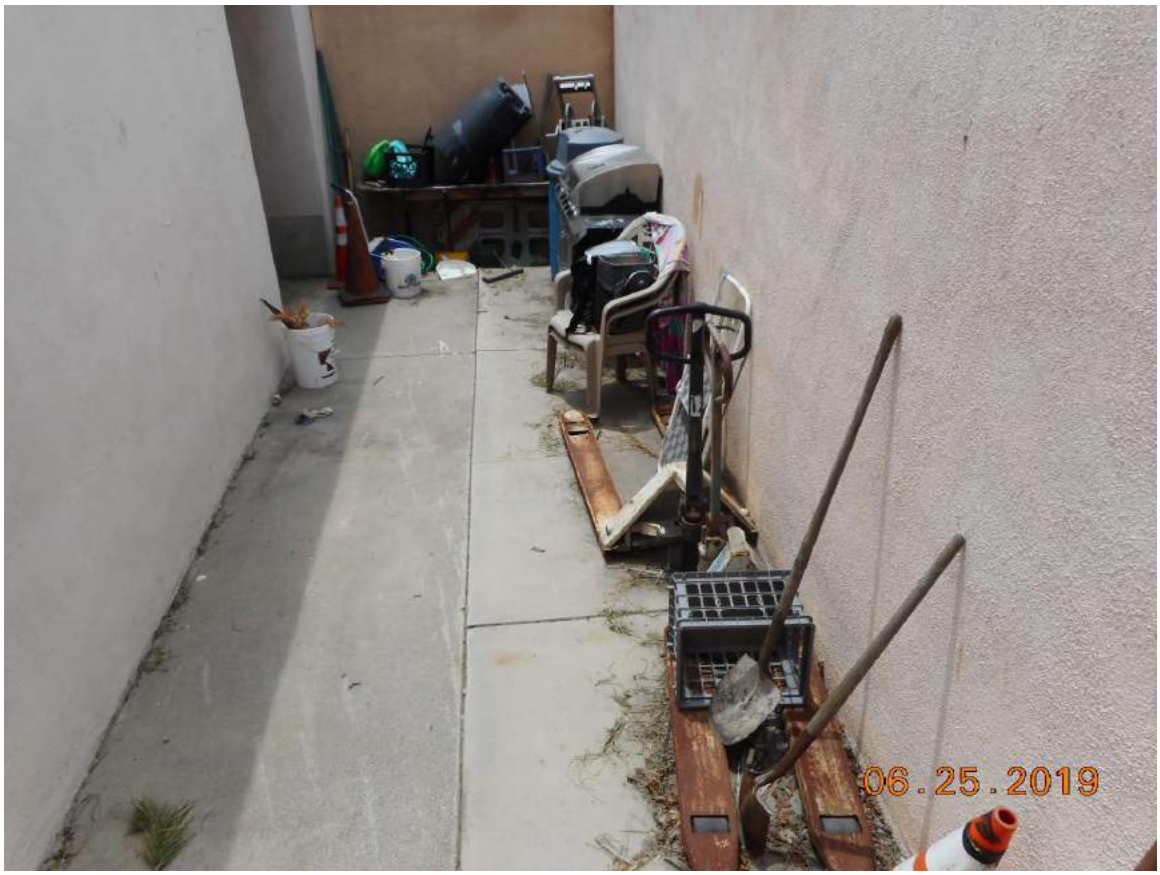

Photo 25 - View inside the enclosure on the north side of the northeast extension of the onsite church building, shown near the left edge of the previous photograph. This enclosure area includes storage of miscellaneous items, including pallet jacks, traffic cones, chairs, and barbeque.

Photo 26 - View to the west-southwest inside the white gated entrance shown to the left at the left light brown enclosure shown in **Photo 24**. To the right is a building with equipment beyond, related to cellular communication.

Photo 27 - View to the right of that shown in the previous photograph.

Photo 28 - View facing northwest, looking towards the front of the light brown enclosure shown to the right in **Photo 24**.

Photo 29 - Looking at the easterly, slightly larger portion of the enclosure shown in the previous photograph. Inside the gate is a diesel-powered, emergency electric backup generator and equipment that includes lead acid batteries.

Photo 30 - View inside the westerly, slightly smaller portion of the enclosure shown in **Photo 28**. This enclosure is reported to have formerly included cellular communication equipment, which was later removed, and has remnant electrical panels and equipment.

Photo 31 - View facing east-northeast towards a detached garage in the residential area within the southeasterly portion of the subject site. The storage unit to the left is used to store emergency supplies, including bottled water. The back of the onsite single-family residence at 863 West Orange Grove Avenue is shown to the right.

Photo 32 - View inside the detached garage shown in the previous photograph. Various items are being stored, including fertilizer, stucco, paint (1-gallon cans), spray paint cans, and up to 1-gallon containers of gasoline, antifreeze, insecticides, laquer thinner, wallpaper stripper.

Photo 33 - Easterly view showing two sheds located approximately 60 feet east of the detached garage shown in the two previous photographs. The east/northeast boundary of the subject site falls along steel chain-link and wooden fencing in the background, left and right of the sheds.

Photo 34 - Looking inside the smaller shed shown in the previous photograph. Stored items include paint containers.

Photo 35 - View to the left of that shown in the previous photograph. The shelves include containers of paint and carburetor and throttle body cleaner.

Photo 36 - View to the right of that shown in **Photo 34**. Up to 5-gallon containers of paint are present.

Photo 37 - Looking inside the larger shed shown in **Photo 33**. To the back left are containers that include grease, spray paint, and rust remover and nut, bolt, and fitting loosener.

Photo 38 - View to the left of that shown in the previous photograph, showing up to 2.5-gallon containers with herbicide and gasoline.

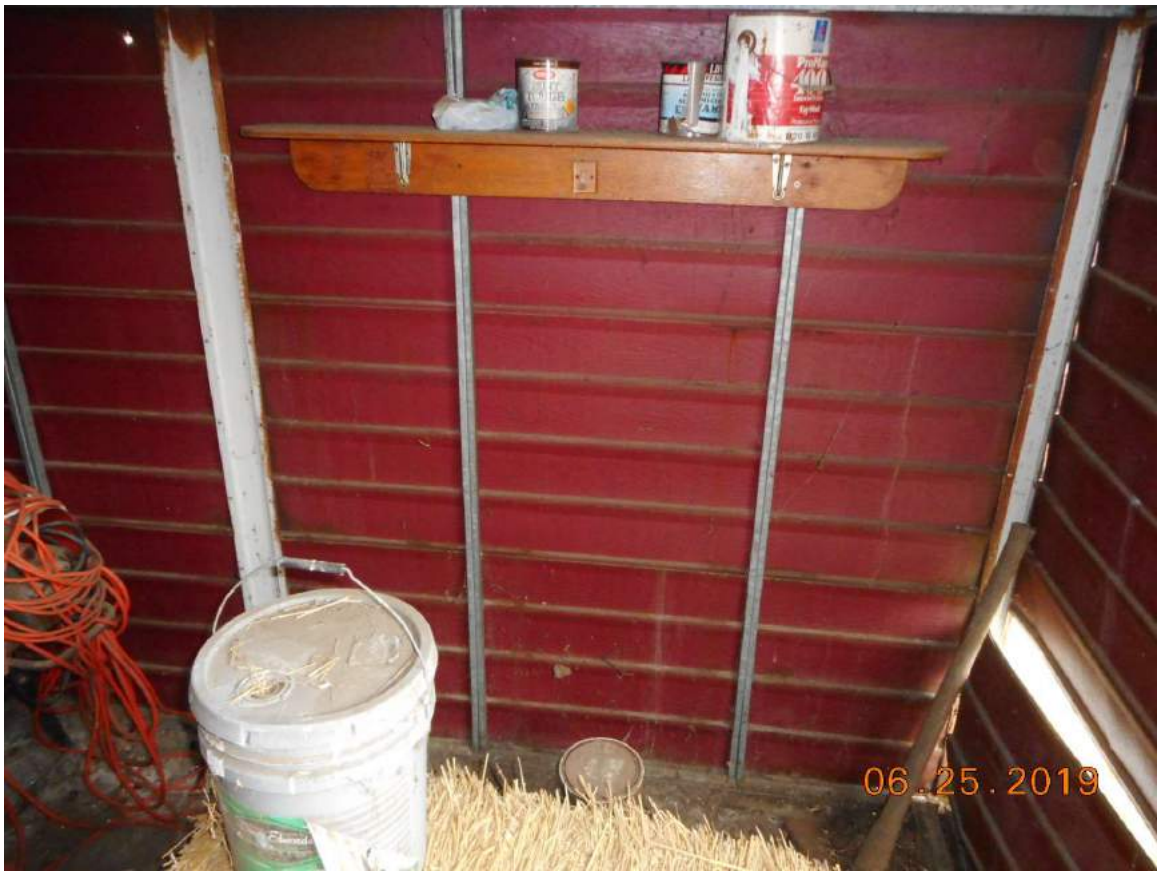

Photo 39 - View to the right of that shown in **Photo 37**. Containers of paint up to 5 gallons are present.

Photo 40 - Westerly view from near the north/northeast corner of the subject site, adjacent to the cul-de-sac for Casa Hermosa Drive.

Photo 41 - View to the left of that shown in the previous photograph, facing southwest. The east/northeast boundary of the subject site is situated behind where this photograph was taken, and leads to the south-southeast along the back side of the tree at the ledge edge of the photograph.

Photo 42 - Southwesterly view towards the two single-family residences in the southeasterly portion of the subject site. To the right is the smaller residence, addressed 863 West Orange Grove Avenue and to the left is the larger residence, addressed 861 West Orange Grove Avenue.

Photo 43 - Southeasterly view, looking toward the east/southeast corner of the subject site which is obscured by trees. The east/northeast side of the residence at 861 West Orange Grove Avenue is shown to the right.

Photo 44 - Northerly view towards the residence at 863 West Orange Grove Avenue, with the front shown right of center. The nearby detached garage is shown to the left at portion of the residence at 861 West Orange Grove Avenue is to the right.

Photo 45 - Northeasterly view towards the west/southwest side of the residence at 861 West Orange Grove Avenue. The door to the left under the smaller awning opens to the stairs lead down to a small basement, as shown in the next photograph.

Photo 46 - Looking down the stairs to the small basement beneath the west/northwest portion of the residence at 861 West Orange Grove Avenue. Just beyond the bottom of the stairs is a floor drain that appears to drain into underlying soil.

Photo 47 - View of the shelf to the right at the bottom of the stairs shown in the previous photograph. Paint and paint thinner containers are shown.

Photo 48 - Northerly view towards the front of the residence at 861 West Orange Grove Avenue.

Photo 49 - Northwesterly view along an asphalt drive situated south-southwest of the residence shown in the previous photograph, and leads into the subject site off of West Orange Grove Avenue.

Photo 50 - Northerly view from the east/southeast corner of the church area of the subject site. The closest extension of the church shown is the fellowship hall.

Photo 51 - Westerly view to the left of that shown in the previous photograph. The first sign to the left is for the Iglesia de Cristo Sion, a Spanish-speaking congregation that uses the onsite church facilities. The next sign is for the Pomona Fellowship Church of the Brethren, the namesake of the main onsite congregation and owner of the subject site.

Photo 52 - Westerly view from the east-southeast corner of the subject site.

Photo 53 - View to the right of that shown in the previous photograph, facing north-northwest. The fence line to the right is along the east/northeast subject site boundary, beyond which is a single-family residence.

Photo 54 - Some diesel-stained concrete is shown here in the secondary containment for the emergency backup electrical generator for the eastern of the of the northerly cellular communication equipment enclosures. No indication of diesel staining outside the secondary containment, including in the nearby soil, was observed.

APPENDIX E

EDR Environmental Database Report and EDR Site Reports™

DRAFT

APNs 8358-009-006, -009, & -010
875 West Orange Grove Avenue
Pomona, CA 91768

Inquiry Number: 5697522.2s
June 25, 2019

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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Detail Map	3
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Map Findings	9
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Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
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Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

875 WEST ORANGE GROVE AVENUE
POMONA, CA 91768

COORDINATES

Latitude (North):	34.0679100 - 34° 4' 4.47''
Longitude (West):	117.7668460 - 117° 46' 0.64''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	429237.4
UTM Y (Meters):	3769756.2
Elevation:	860 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5619080 SAN DIMAS, CA
Version Date:	2012
East Map:	5619074 ONTARIO, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140527, 20140515, 20140603
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
875 WEST ORANGE GROVE AVENUE
POMONA, CA 91768

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	CITY OF POMONA PUBLI	875 W ORANGE GROVE A	FINDS, ECHO		TP
A2	CITY OF POMONA PUBLI	875 W ORANGE GROVE A	RCRA NonGen / NLR		TP
A3	VERIZON WIRELESS: HA	875 W. ORANGE GROVE	FINDS		TP
A4	CITY OF POMONA PUBLI	875 W ORANGE GROVE A	HAZNET		TP
5	LUIS REYES	794 ALTURA CT	RCRA NonGen / NLR	Higher	1140, 0.216, North
6	ALARCON ENVIRONMENTA	632 BURDICK DR	HAZNET, HWT	Higher	1237, 0.234, ENE
B7	C. D. TEXACO	506 ORANGE GROVE AVE	LUST	Higher	2007, 0.380, ENE
B8	C. D. TEXACO	506 W ORANGE GROVE A	LUST, CERS	Higher	2007, 0.380, ENE
9	LA COUNTY FIRE STATI	1059 WHITE AVENUE N	LUST, Cortese, CERS	Higher	2024, 0.383, East
C10	1 DAY PAINT & BODY C	805 HOLT AVE W	LUST, EMI, HIST CORTESE, LOS ANGELES CO. HMS, CERS	Lower	2029, 0.384, SSE
C11	RAPID STATION #12	790 HOLT AVE W	LUST, HIST CORTESE, CERS	Lower	2159, 0.409, SSE
12	ESTATE OF JOHN H CAT	770 WEST HOLT AVENUE	LUST, CERS	Lower	2248, 0.426, SSE
13	COTEZ AUTOMOTIVE	1212 WHITE AVE. N	LUST, CERS	Higher	2331, 0.441, ENE
14	OMNI BANK	1407 W HOLT AVE	RCRA-SQG, LUST, CERS HAZ WASTE, FINDS, ECHO, EMI	Lower	2508, 0.475, SW
15	DUDLEY-MURCHISON SCH	1325-1391 JACQUELINE	ENVIROSTOR, SCH	Lower	2687, 0.509, WNW
D16	CALSOL INC.	822 WEST COMMERCIAL	ENVIROSTOR, VCP	Lower	3020, 0.572, SSE
D17	SEWER LOT	198 NORTH HAMILTON B	ENVIROSTOR, VCP, DEED, LA Co. Site Mitigation	Lower	3100, 0.587, SSE
18	SO CAL GAS/POMONA MG	COMMERCIAL AVE AND H	EDR MGP	Lower	3393, 0.643, SSE
19	POMONA CORPORATE YAR	148 NORTH HUNTINGTON	ENVIROSTOR, LUST, VCP, Cortese, HIST CORTESE, CERS	Lower	3834, 0.726, SSE
20	LINCOLN ELEMENTARY	1293 N. GAREY AVENUE	ENVIROSTOR, SCH, CERS	Higher	4212, 0.798, ENE
21	AMCAL MULTI-HOUSING	424-446 WEST COMMERC	ENVIROSTOR	Higher	4389, 0.831, SE
22	MISSION-WHITE PROPER	1020 W. MISSION BOUL	ENVIROSTOR, SCH	Lower	5138, 0.973, SSE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 9 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
CITY OF POMONA PUBLI 875 W ORANGE GROVE A POMONA, CA 91768	FINDS Registry ID:: 110070409669 ECHO Registry ID: 110070409669	N/A
CITY OF POMONA PUBLI 875 W ORANGE GROVE A POMONA, CA 91768	RCRA NonGen / NLR EPA ID:: CAH111001351	CAH111001351
VERIZON WIRELESS: HA 875 W. ORANGE GROVE POMONA, CA 91768	FINDS Registry ID:: 110066038969	N/A
CITY OF POMONA PUBLI 875 W ORANGE GROVE A POMONA, CA 91768	HAZNET GEPAID: CAH111001351	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing

SEMS Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG RCRA - Large Quantity Generators
RCRA-SQG RCRA - Small 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 landfill and/or solid waste disposal site lists

SWF/LF Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST Leaking Underground Storage Tanks on Indian Land
CPS-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

WMUDS/SWAT ..... Waste Management Unit Database
SWRCY ..... Recycler Database
HAULERS ..... Registered Waste Tire Haulers Listing
INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 ..... Torres Martinez Reservation Illegal Dump Site Locations
ODI ..... Open Dump Inventory
IHS OPEN DUMPS ..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

AOCONCERN ..... Key Areas of Concerns in Los Angeles County
US HIST CDL ..... Delisted National Clandestine Laboratory Register
HIST Cal-Sites ..... Historical Calsites Database
SCH ..... School Property Evaluation Program
CDL ..... Clandestine Drug Labs
CERS HAZ WASTE ..... CERS HAZ WASTE
Toxic Pits ..... Toxic Pits Cleanup Act Sites
US CDL ..... National Clandestine Laboratory Register
PFAS ..... PFAS Contamination Site Location Listing

Local Lists of Registered Storage Tanks

SWEEPS UST ..... SWEEPS UST Listing
HIST UST ..... Hazardous Substance Storage Container Database
CA FID UST ..... Facility Inventory Database
CERS TANKS ..... California Environmental Reporting System (CERS) Tanks

Local Land Records

LIENS ..... Environmental Liens Listing
LIENS 2 ..... CERCLA Lien Information
DEED ..... Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System
CHMIRS ..... California Hazardous Material Incident Report System
LDS ..... Land Disposal Sites Listing
MCS ..... Military Cleanup Sites Listing
SPILLS 90 ..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS ..... Formerly Used Defense Sites
DOD ..... Department of Defense Sites

EXECUTIVE SUMMARY

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
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
ICE	ICE
LOS ANGELES CO. HMS	HMS: Street Number List
HWP	EnviroStor Permitted Facilities Listing
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing
NPDES	NPDES Permits Listing
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
Notify 65	Proposition 65 Records
LA Co. Site Mitigation	Site Mitigation List
UIC	UIC Listing
UIC GEO	UIC GEO (GEOTRACKER)
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
MILITARY PRIV SITES	MILITARY PRIV SITES (GEOTRACKER)
PROJECT	PROJECT (GEOTRACKER)

EXECUTIVE SUMMARY

WDR ---------- Waste Discharge Requirements Listing
CIWQS ---------- California Integrated Water Quality System
CERS ---------- CERS
NON-CASE INFO ---------- NON-CASE INFO (GEOTRACKER)
WIP ---------- Well Investigation Program Case List
OTHER OIL GAS ---------- OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS ---------- PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT ---------- SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ ---------- Well Stimulation Project (GEOTRACKER)
LOS ANGELES CO LF METHANE ---------- Methane Producing Landfills

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto ---------- EDR Exclusive Historical Auto Stations
EDR Hist Cleaner ---------- EDR Exclusive Historical Cleaners

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

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 01/28/2019 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
LINCOLN ELEMENTARY	***1293 N. GAREY AVENUE***	***ENE 1/2 - 1 (0.798 mi.)***	***20***	***71***
AMCAL MULTI-HOUSING	424-446 WEST COMMERC	SE 1/2 - 1 (0.831 mi.)	21	74

Lower Elevation	Address	Direction / Distance	Map ID	Page
DUDLEY-MURCHISON SCH	***1325-1391 JACQUELINE***	***WNW 1/2 - 1 (0.509 mi.)***	***15***	***41***
CALSOL INC.	***822 WEST COMMERCIAL***	***SSE 1/2 - 1 (0.572 mi.)***	***D16***	***45***
SEWER LOT	***198 NORTH HAMILTON B***	***SSE 1/2 - 1 (0.587 mi.)***	***D17***	***61***
POMONA CORPORATE YAR	***148 NORTH HUNTINGTON***	***SSE 1/2 - 1 (0.726 mi.)***	***19***	***66***
MISSION-WHITE PROPER	***1020 W. MISSION BOUL***	***SSE 1/2 - 1 (0.973 mi.)***	***22***	***75***

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 8 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
C. D. TEXACO	506 ORANGE GROVE AVE	ENE 1/4 - 1/2 (0.380 mi.)	B7	16
Database: LUST REG 4, Date of Government Version: 09/07/2004 Facility Id: R-30675 Status: Preliminary site assessment workplan submitted Global ID: T0603792887				
C. D. TEXACO	***506 W ORANGE GROVE A***	***ENE 1/4 - 1/2 (0.380 mi.)***	***B8***	***17***
Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Global Id: T0603792887				
LA COUNTY FIRE STATI	***1059 WHITE AVENUE N***	***E 1/4 - 1/2 (0.383 mi.)***	***9***	***19***
Database: LUST, Date of Government Version: 12/10/2018 Status: Open - Active Global Id: T10000011085				
COTEZ AUTOMOTIVE	***1212 WHITE AVE. N***	***ENE 1/4 - 1/2 (0.441 mi.)***	***13***	***32***
Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Global Id: T0603716466				

Lower Elevation	Address	Direction / Distance	Map ID	Page
1 DAY PAINT & BODY C	***805 HOLT AVE W***	***SSE 1/4 - 1/2 (0.384 mi.)***	***C10***	***21***
Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed				

Facility Id: I-23552
Status: Case Closed
Global Id: T0603704503
Global ID: T0603704503

RAPID STATION #12 ***790 HOLT AVE W*** ***SSE 1/4 - 1/2 (0.409 mi.)*** ***C11*** ***25***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Id: R-13323
Status: Preliminary site assessment underway
Global Id: T0603705190
Global ID: T0603705190

ESTATE OF JOHN H CAT ***770 WEST HOLT AVENUE*** ***SSE 1/4 - 1/2 (0.426 mi.)*** ***12*** ***29***
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Global Id: T10000003423

OMNI BANK ***1407 W HOLT AVE*** ***SW 1/4 - 1/2 (0.475 mi.)*** ***14*** ***34***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Id: I-15170
Status: Case Closed
Global Id: T0603704269
Global ID: T0603704269

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/25/2019 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LUIS REYES EPA ID:: CAC002973431	794 ALTURA CT	N 1/8 - 1/4 (0.216 mi.)	5	12

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 (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 03/25/2019 has revealed that there is 1 Cortese site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LA COUNTY FIRE STATI	***1059 WHITE AVENUE N***	***E 1/4 - 1/2 (0.383 mi.)***	***9***	***19***

Cleanup Status: OPEN - ACTIVE

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 2 HIST CORTESE sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
1 DAY PAINT & BODY C Reg Id: I-23552	***805 HOLT AVE W***	***SSE 1/4 - 1/2 (0.384 mi.)***	***C10***	***21***
RAPID STATION #12 Reg Id: R-13323	***790 HOLT AVE W***	***SSE 1/4 - 1/2 (0.409 mi.)***	***C11***	***25***

HWT: 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.

A review of the HWT list, as provided by EDR, and dated 04/08/2019 has revealed that there is 1 HWT site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALARCON ENVIRONMENTA Reg Num: 5124	***632 BURDICK DR***	***ENE 1/8 - 1/4 (0.234 mi.)***	***6***	***14***

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: 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.

A review of the EDR MGP list, as provided by EDR, has revealed that there is 1 EDR MGP site within approximately 1 mile of the target property.

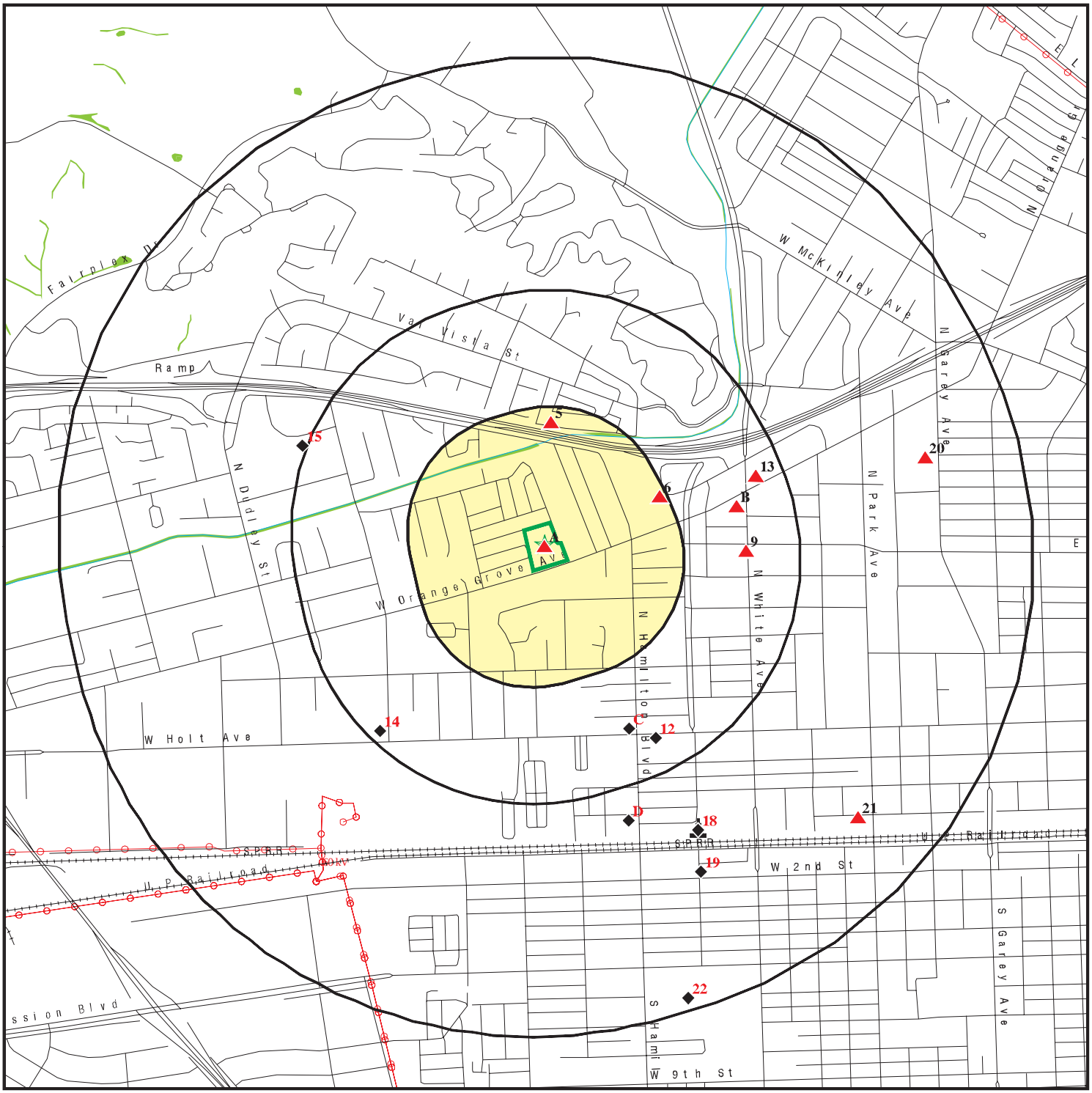
Lower Elevation	Address	Direction / Distance	Map ID	Page
SO CAL GAS/POMONA MG	COMMERCIAL AVE AND H	SSE 1/2 - 1 (0.643 mi.)	18	66

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name	Database(s)
CAL SOL	LUST
POMONA DEFENSE SUPPLY PROCUREMENT	CA BOND EXP. PLAN

OVERVIEW MAP - 5697522.2S



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:	APNs 8358-009-006, -009, & -010	CLIENT:	LOR Geotechnical Group, Inc.
ADDRESS:	875 West Orange Grove Avenue Pomona CA 91768	CONTACT:	Mathew Hunt
LAT/LONG:	34.06791 / 117.766846	INQUIRY #:	5697522.2s
		DATE:	June 25, 2019 1:25 pm

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DETAIL MAP - 5697522.2S

Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Areas of Concern

N

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:	APNs 8358-009-006, -009, & -010	CLIENT:	LOR Geotechnical Group, Inc.
ADDRESS:	875 West Orange Grove Avenue Pomona CA 91768	CONTACT:	Mathew Hunt
LAT/LONG:	34.06791 / 117.766846	INQUIRY #:	5697522.2s
		DATE:	June 25, 2019 1:29 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	0	7	NR	7
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	0	8	NR	NR	8

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
CPS-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	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
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	0.001		0	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	0.001		0	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.001		0	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
CERS TANKS	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250	1	0	1	NR	NR	NR	2
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001	2	0	NR	NR	NR	NR	2
UXO	1.000		0	0	0	0	NR	0
ECHO	0.001	1	0	NR	NR	NR	NR	1
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	1	NR	NR	1
CUPA Listings	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001	1	0	NR	NR	NR	NR	1
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	2	NR	NR	2
LOS ANGELES CO. HMS	0.001		0	NR	NR	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	1	NR	NR	NR	1
MINES	0.001		0	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
LA Co. Site Mitigation	0.001		0	NR	NR	NR	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
LOS ANGELES CO LF METHANE	0.500		0	0	0	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	1	NR	1
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0

- Totals --		5	0	2	11	8	0	26

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

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **CITY OF POMONA PUBLIC WORKS** **FINDS** **1024621282**
Target **875 W ORANGE GROVE AVE** **ECHO** **N/A**
Property **POMONA, CA 91768**

Site 1 of 4 in cluster A

Actual:
860 ft.

FINDS:

Registry ID: 110070409669

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:	1024621282
Registry ID:	110070409669
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110070409669

A2 **CITY OF POMONA PUBLIC WORKS** **RCRA NonGen / NLR** **1024785210**
Target **875 W ORANGE GROVE AVE** **CAH111001351**
Property **POMONA, CA 91768**

Site 2 of 4 in cluster A

Actual:
860 ft.

RCRA NonGen / NLR:

Date form received by agency:	06/08/2011
Facility name:	CITY OF POMONA PUBLIC WORKS
Facility address:	875 W ORANGE GROVE AVE POMONA, CA 91768
EPA ID:	CAH111001351
Mailing address:	PO BOX 660 POMONA, CA 91769
Contact:	DAVID HAMILTON
Contact address:	505 S GAREY AVE POMONA, CA 91766-3320
Contact country:	Not reported
Contact telephone:	909-620-2288
Contact email:	Not reported
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	CITY OF POMONA PUB WKS DEPT
Owner/operator address:	505 S GAREY AVE POMONA, CA 91766
Owner/operator country:	Not reported
Owner/operator telephone:	909-620-2288
Owner/operator email:	Not reported
Owner/operator fax:	Not reported

CITY OF POMONA PUBLIC WORKS (Continued) **1024785210**

Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: DAVID HAMILTON
Owner/operator address: 505 S GAREY AVE
POMONA, CA 91766
Owner/operator country: Not reported
Owner/operator telephone: 909-620-2288
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
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: Yes
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

A3 **VERIZON WIRELESS: HAMILTON** **FINDS** **1023311072**
Target **875 W. ORANGE GROVE AVENUE** **N/A**
Property **POMONA, CA 91768**

Site 3 of 4 in cluster A

Actual: FINDS:
860 ft.

Registry ID: 110066038969

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A4 **CITY OF POMONA PUBLIC WORKS** **HAZNET** **S113020648**
Target **875 W ORANGE GROVE AVE** **N/A**
Property **POMONA, CA 91768**

Site 4 of 4 in cluster A

Actual:
860 ft.

HAZNET:

Name:	CITY OF POMONA PUBLIC WORKS
Address:	875 W ORANGE GROVE AVE
City,State,Zip:	POMONA, CA 91768
Year:	2017
GEPAID:	CAH111001351
Contact:	DAVID HAMILTON
Telephone:	9096202288
Mailing Name:	Not reported
Mailing Address:	PO BOX 660
Mailing City,St,Zip:	POMONA, CA 91769
Gen County:	Los Angeles
TSD EPA ID:	CAH111001400
TSD County:	Orange
Tons:	1.45
CA Waste Code:	612-Household waste
Method:	-
Facility County:	Los Angeles

Name:	CITY OF POMONA PUBLIC WORKS
Address:	875 W ORANGE GROVE AVE
City,State,Zip:	POMONA, CA 91768
Year:	2016
GEPAID:	CAH111001351
Contact:	DAVID HAMILTON
Telephone:	9096202288
Mailing Name:	Not reported
Mailing Address:	PO BOX 660
Mailing City,St,Zip:	POMONA, CA 91769
Gen County:	Los Angeles
TSD EPA ID:	CAH111001400
TSD County:	Orange
Tons:	1.2
CA Waste Code:	612-Household waste
Method:	H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles

Name:	CITY OF POMONA PUBLIC WORKS
Address:	875 W ORANGE GROVE AVE
City,State,Zip:	POMONA, CA 91768
Year:	2015
GEPAID:	CAH111001351
Contact:	DAVID HAMILTON
Telephone:	9096202288
Mailing Name:	Not reported
Mailing Address:	PO BOX 660
Mailing City,St,Zip:	POMONA, CA 91769
Gen County:	Los Angeles
TSD EPA ID:	CAH111001400
TSD County:	Orange
Tons:	2.17257
CA Waste Code:	612-Household waste

CITY OF POMONA PUBLIC WORKS (Continued) **S113020648**

Method:	H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles
Name:	CITY OF POMONA PUBLIC WORKS
Address:	875 W ORANGE GROVE AVE
City,State,Zip:	POMONA, CA 91768
Year:	2014
GEPAID:	CAH111001351
Contact:	DAVID HAMILTON
Telephone:	9096202288
Mailing Name:	Not reported
Mailing Address:	PO BOX 660
Mailing City,St,Zip:	POMONA, CA 91769
Gen County:	Los Angeles
TSD EPA ID:	CAD099452708
TSD County:	Los Angeles
Tons:	0.89655
CA Waste Code:	612-Household waste
Method:	H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	Los Angeles
Name:	CITY OF POMONA PUBLIC WORKS
Address:	875 W ORANGE GROVE AVE
City,State,Zip:	POMONA, CA 91768
Year:	2013
GEPAID:	CAH111001351
Contact:	DAVID HAMILTON
Telephone:	9096202288
Mailing Name:	Not reported
Mailing Address:	PO BOX 660
Mailing City,St,Zip:	POMONA, CA 91769
Gen County:	Los Angeles
TSD EPA ID:	CAD099452708
TSD County:	Los Angeles
Tons:	1.216
CA Waste Code:	221-Waste oil and mixed oil
Method:	H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
6 additional CA_HAZNET: record(s) in the EDR Site Report.

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5 **LUIS REYES** **RCRA NonGen / NLR** **1024753617**
North **794 ALTURA CT** **CAC002973431**
1/8-1/4 **POMONA, CA 91768**
0.216 mi.
1140 ft.

Relative: RCRA NonGen / NLR:
Higher

Date form received by agency:	07/31/2018
Facility name:	LUIS REYES
Facility address:	794 ALTURA CT POMONA, CA 91768
EPA ID:	CAC002973431
Contact:	LUIS REYES

Actual:
871 ft.

LUIS REYES (Continued) **1024753617**

Contact address: 794 ALTURA CT
POMONA, CA 91768
Contact country: Not reported
Contact telephone: 562-244-0084
Contact email: JOE@SIRRIS.BIZ
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: LUIS REYES
Owner/operator address: 794 ALTURA CT
POMONA, CA 91768
Owner/operator country: Not reported
Owner/operator telephone: 562-244-0084
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: LUIS REYES
Owner/operator address: 794 ALTURA CT
POMONA, CA 91768
Owner/operator country: Not reported
Owner/operator telephone: 562-244-0084
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
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

6
ENE
1/8-1/4
0.234 mi.
1237 ft.

ALARCON ENVIRONMENTAL SVCS
632 BURDICK DR
POMONA, CA 91768

HAZNET **S111413583**
HWT **N/A**

Relative:
Higher

Actual:
875 ft.

HAZNET:

Name:	ALARCON ENVIRONMENTAL SVCS
Address:	632 BURDICK DR
City,State,Zip:	POMONA, CA 917686828
Year:	2017
GEPAID:	CAD983613811
Contact:	MICHAEL ALARCON OWNER
Telephone:	9095951126
Mailing Name:	Not reported
Mailing Address:	632 BURDICK DR
Mailing City,St,Zip:	POMONA, CA 917686828
Gen County:	Los Angeles
TSD EPA ID:	CAT080025711
TSD County:	San Bernardino
Tons:	2.1
CA Waste Code:	134-Aqueous solution with total organic residues less than 10 percent
Method:	H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles

Name:	ALARCON ENVIRONMENTAL SVCS
Address:	632 BURDICK DR
City,State,Zip:	POMONA, CA 917686828
Year:	2017
GEPAID:	CAD983613811
Contact:	MICHAEL ALARCON OWNER
Telephone:	9095951126
Mailing Name:	Not reported
Mailing Address:	632 BURDICK DR
Mailing City,St,Zip:	POMONA, CA 917686828
Gen County:	Los Angeles
TSD EPA ID:	CAT080025711
TSD County:	San Bernardino
Tons:	113.791
CA Waste Code:	221-Waste oil and mixed oil
Method:	H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles

Name:	ALARCON ENVIRONMENTAL SVCS
Address:	632 BURDICK DR
City,State,Zip:	POMONA, CA 917686828
Year:	2017
GEPAID:	CAD983613811
Contact:	MICHAEL ALARCON OWNER
Telephone:	9095951126
Mailing Name:	Not reported
Mailing Address:	632 BURDICK DR
Mailing City,St,Zip:	POMONA, CA 917686828
Gen County:	Los Angeles
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Tons:	43.681

ALARCON ENVIRONMENTAL SVCS (Continued) **S111413583**

CA Waste Code: 221-Waste oil and mixed oil
Method: H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Los Angeles

Name: ALARCON ENVIRONMENTAL SVCS
Address: 632 BURDICK DR
City,State,Zip: POMONA, CA 917686828
Year: 2016
GEPAID: CAD983613811
Contact: MICHAEL ALARCON OWNER
Telephone: 9095951126
Mailing Name: Not reported
Mailing Address: 632 BURDICK DR
Mailing City,St,Zip: POMONA, CA 917686828
Gen County: Los Angeles
TSD EPA ID: CAT080025711
TSD County: San Bernardino
Tons: 3.14835
CA Waste Code: 133-Aqueous solution with total organic residues 10 percent or more
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Los Angeles

Name: ALARCON ENVIRONMENTAL SVCS
Address: 632 BURDICK DR
City,State,Zip: POMONA, CA 917686828
Year: 2016
GEPAID: CAD983613811
Contact: MICHAEL ALARCON OWNER
Telephone: 9095951126
Mailing Name: Not reported
Mailing Address: 632 BURDICK DR
Mailing City,St,Zip: POMONA, CA 917686828
Gen County: Los Angeles
TSD EPA ID: CAT080025711
TSD County: San Bernardino
Tons: 1.976
CA Waste Code: 221-Waste oil and mixed oil
Method: H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
43 additional CA_HAZNET: record(s) in the EDR Site Report.

HWT:
Reg Num: 5124
Facility Telephone 909.595.1126
Expiration Date: 06/30/2019

B7 **C. D. TEXACO** **LUST** **S104816195**
ENE **506 ORANGE GROVE AVE W** **N/A**
1/4-1/2 **POMONA, CA 91768**
0.380 mi.
2007 ft. **Site 1 of 2 in cluster B**

Relative: **Higher**

Actual: **884 ft.**

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	R-30675	
Status:	Preliminary site assessment workplan submitted	
Substance:	1	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603792887	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19000	
Cross Street:	WHITE AVE	
Enforcement Type:	Not reported	
Date Leak Discovered:	7/17/2000	
Date Leak First Reported:		11/2/2000
Date Leak Record Entered:	Not reported	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		11/2/2000
Date the Case was Closed:		Not reported
How Leak Discovered:	Repair Tank	
How Leak Stopped:	Not reported	
Cause of Leak:	Not reported	
Leak Source:	Tank	
Operator:	Not reported	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		3053.0548963207470958801348588
Source of Cleanup Funding:		Tank
Preliminary Site Assessment Workplan Submitted:		11/2/2000
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:	C.D. TEXACO	
RP Address:	506 W. ORANGE GROVE AVE., POMONA, CA 91768	
Program:	LUST	
Lat/Long:	34.069375 / -1	
Local Agency Staff:	Not reported	

C. D. TEXACO (Continued) **S104816195**

Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: Not reported

B8 **C. D. TEXACO** **LUST S104566007**
ENE **506 W ORANGE GROVE AVE** **CERS N/A**
1/4-1/2 **POMONA, CA 91768**
0.380 mi.
2007 ft. **Site 2 of 2 in cluster B**

Relative:
Higher

Actual:
884 ft.

LUST:
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603792887
Global Id: T0603792887
Latitude: 34.069375
Longitude: -117.759569
Status: Completed - Case Closed
Status Date: 01/21/2014
Case Worker: AJL
RB Case Number: R-30675
Local Agency: LOS ANGELES COUNTY
File Location: Not reported
Local Case Number: 015173-030675
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0603792887
Contact Type: Regional Board Caseworker
Contact Name: AHMAD J. LAMAA
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 West 4th Street Suite 200
City: Los Angeles
Email: alamaa@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0603792887
Contact Type: Local Agency Caseworker
Contact Name: RANI IYER
Organization Name: LOS ANGELES COUNTY
Address: 900 S. FREMONT AVE.
City: ALHAMBRA
Email: riyer@dpw.lacounty.gov
Phone Number: Not reported

LUST:
Global Id: T0603792887
Action Type: Other
Date: 11/02/2000
Action: Leak Reported

Global Id: T0603792887
Action Type: ENFORCEMENT

C. D. TEXACO (Continued) **S104566007**

Date: 10/19/2011
Action: Staff Letter

Global Id: T0603792887
Action Type: ENFORCEMENT
Date: 09/01/2011
Action: Referral to Regional Board

Global Id: T0603792887
Action Type: ENFORCEMENT
Date: 11/14/2013
Action: Notification - Preclosure

Global Id: T0603792887
Action Type: ENFORCEMENT
Date: 01/21/2014
Action: Closure/No Further Action Letter

Global Id: T0603792887
Action Type: Other
Date: 07/17/2000
Action: Leak Discovery

Global Id: T0603792887
Action Type: RESPONSE
Date: 11/30/2011
Action: Other Report / Document

LUST:
Global Id: T0603792887
Status: Completed - Case Closed
Status Date: 01/21/2014

Global Id: T0603792887
Status: Open - Case Begin Date
Status Date: 07/17/2000

Global Id: T0603792887
Status: Open - Eligible for Closure
Status Date: 12/12/2012

Global Id: T0603792887
Status: Open - Site Assessment
Status Date: 11/02/2000

Global Id: T0603792887
Status: Open - Site Assessment
Status Date: 06/29/2001

CERS TANKS:
Site ID: 188289
CERS ID: T0603792887
Site Name: C. D. TEXACO
CERS Description: Leaking Underground Storage Tank Cleanup Site

C. D. TEXACO (Continued) **S104566007**

Affiliation:
- Affiliation Type Desc: Regional Board Caseworker
- Entity Name: AHMAD J. LAMAA - LOS ANGELES RWQCB (REGION 4)
- Entity Title: Not reported
- Affiliation Address: 320 West 4th Street Suite 200
- Affiliation City: Los Angeles
- Affiliation State: CA
- Affiliation Country: Not reported
- Affiliation Zip: Not reported
- Affiliation Phone: Not reported

- Affiliation Type Desc: Local Agency Caseworker
- Entity Name: RANI IYER - LOS ANGELES COUNTY
- Entity Title: Not reported
- Affiliation Address: 900 S. FREMONT AVE.
- Affiliation City: ALHAMBRA
- Affiliation State: CA
- Affiliation Country: Not reported
- Affiliation Zip: Not reported
- Affiliation Phone: Not reported

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9 **LA COUNTY FIRE STATION #182** **LUST** **S121307872**
East **1059 WHITE AVENUE N** **Cortese** **N/A**
1/4-1/2 **POMONA, CA 91768** **CERS**
0.383 mi.
2024 ft.

Relative: Higher

Actual: 880 ft.

LUST:
- Lead Agency: LOS ANGELES RWQCB (REGION 4)
- Case Type: LUST Cleanup Site
- Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T10000011085
- Global Id: T10000011085
- Latitude: 34.06842
- Longitude: -117.75963
- Status: Open - Active
- Status Date: 11/15/2017
- Case Worker: NB
- RB Case Number: R-12417
- Local Agency: Not reported
- File Location: Not reported
- Local Case Number: Not reported
- Potential Media Affect: Not reported
- Potential Contaminants of Concern: Not reported
- Site History: Not reported

LUST:
- Global Id: T10000011085
- Contact Type: Regional Board Caseworker
- Contact Name: NHAN BAO
- Organization Name: LOS ANGELES RWQCB (REGION 4)
- Address: 320 WEST 4TH STREET, SUITE 200
- City: LOS ANGELES
- Email: nbao@waterboards.ca.gov
- Phone Number: 2135766703

LUST:

LA COUNTY FIRE STATION #182 (Continued) **S121307872**

Global Id: T10000011085
Action Type: RESPONSE
Date: 12/05/2017
Action: Other Report / Document

Global Id: T10000011085
Action Type: RESPONSE
Date: 12/14/2018
Action: Other Report / Document

Global Id: T10000011085
Action Type: Other
Date: 11/02/2017
Action: Leak Reported

Global Id: T10000011085
Action Type: ENFORCEMENT
Date: 11/14/2018
Action: Health and Safety Code Section 25296.10(c)

Global Id: T10000011085
Action Type: ENFORCEMENT
Date: 11/08/2017
Action: Referral to Regional Board

Global Id: T10000011085
Action Type: ENFORCEMENT
Date: 11/21/2017
Action: Staff Letter

Global Id: T10000011085
Action Type: Other
Date: 08/30/1993
Action: Leak Began

Global Id: T10000011085
Action Type: Other
Date: 08/30/1993
Action: Leak Discovery

LUST:
Global Id: T10000011085
Status: Open - Active
Status Date: 11/15/2017

Global Id: T10000011085
Status: Open - Case Begin Date
Status Date: 08/30/1993

CORTESE:
Region: CORTESE
Envirostor Id: Not reported
Global ID: T10000011085
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: OPEN - ACTIVE

LA COUNTY FIRE STATION #182 (Continued) **S121307872**

Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

CERS TANKS:

Site ID:	429142
CERS ID:	T10000011085
Site Name:	LA COUNTY FIRE STATION #182
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	NHAN BAO - LOS ANGELES RWQCB (REGION 4)
Entity Title:	Not reported
Affiliation Address:	320 WEST 4TH STREET, SUITE 200
Affiliation City:	LOS ANGELES
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	2135766703

C10 **1 DAY PAINT & BODY CENTER** **LUST** **S102229166**
SSE **805 HOLT AVE W** **EMI** **N/A**
1/4-1/2 **POMONA, CA 91768** **HIST CORTESE**
0.384 mi. **LOS ANGELES CO. HMS**
2029 ft. **Site 1 of 2 in cluster C** **CERS**

Relative: **Lower**

Actual: **852 ft.**

LUST:

Lead Agency:	LOS ANGELES COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603704503
Global Id:	T0603704503
Latitude:	34.0623689
Longitude:	-117.763884
Status:	Completed - Case Closed
Status Date:	05/29/1996
Case Worker:	JOA
RB Case Number:	I-23552
Local Agency:	LOS ANGELES COUNTY
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Aviation
Site History:	Not reported

1 DAY PAINT & BODY CENTER (Continued) **S102229166**

LUST:
Global Id: T0603704503
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: T0603704503
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

LUST:
Global Id: T0603704503
Action Type: Other
Date: 05/29/1996
Action: Leak Reported

LUST:
Global Id: T0603704503
Status: Completed - Case Closed
Status Date: 05/29/1996

Global Id: T0603704503
Status: Open - Case Begin Date
Status Date: 05/29/1996

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-23552
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: T0603704503
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: Not reported
Enforcement Type: Not reported
Date Leak Discovered: Not reported
Date Leak First Reported: 5/29/1996
Date Leak Record Entered: 8/9/1996

1 DAY PAINT & BODY CENTER (Continued) **S102229166**

Date Confirmation Began: Not reported
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 5/29/1996
Date the Case was Closed: 5/29/1996
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): 4411.1502871994339306175697504
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: 1-DAY PAINT & BODY
RP Address: 21801 S WESTERN AVE, TORRANCE CA 90510-3724
Program: LUST
Lat/Long: 34.0622156 / -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

EMI:
Year: 1987
County Code: 19
Air Basin: SC
Facility ID: 2667
Air District Name: SC
SIC Code: 7532
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 11
Reactive Organic Gases Tons/Yr: 9
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

1 DAY PAINT & BODY CENTER (Continued) **S102229166**

HIST CORTESE:

edr_fname:	1 DAY PAINT & BODY CENTER
edr_fadd1:	805 HOLT
City,State,Zip:	POMONA, CA 91768
Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	I-23552

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	T
Facility Id:	017367-023552
Facility Type:	1
Facility Status:	Removed
Area:	6K
Permit Number:	000161608
Permit Status:	Removed

CERS TANKS:

Site ID:	203284
CERS ID:	T0603704503
Site Name:	1 DAY PAINT & BODY CENTER
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	JOHN AWUJO - LOS ANGELES COUNTY
Entity Title:	Not reported
Affiliation Address:	900 S FREMONT AVE
Affiliation City:	ALHAMBRA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	6264583507

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	YUE RONG - LOS ANGELES RWQCB (REGION 4)
Entity Title:	Not reported
Affiliation Address:	320 W. 4TH ST., SUITE 200
Affiliation City:	Los Angeles
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

C11 **RAPID STATION #12** **LUST** **S103281796**
SSE **790 HOLT AVE W** **HIST CORTESE** **N/A**
1/4-1/2 **POMONA, CA 91768** **CERS**
0.409 mi.
2159 ft. **Site 2 of 2 in cluster C**

Relative:
Lower

Actual:
853 ft.

LUST:

Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603705190
Global Id:	T0603705190
Latitude:	34.0620393
Longitude:	-117.7631442
Status:	Completed - Case Closed
Status Date:	05/14/2009
Case Worker:	NC
RB Case Number:	R-13323
Local Agency:	LOS ANGELES COUNTY
File Location:	Regional Board
Local Case Number:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Other Solvent or Non-Petroleum Hydrocarbon
Site History:	Not reported

LUST:

Global Id:	T0603705190
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:	T0603705190
Contact Type:	Regional Board Caseworker
Contact Name:	NOMAN CHOWDHURY
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 WEST 4TH STREET, SUITE 200
City:	LOS ANGELES
Email:	nchowdhury@waterboards.ca.gov
Phone Number:	2135766704

LUST:

Global Id:	T0603705190
Action Type:	ENFORCEMENT
Date:	10/20/2008
Action:	Staff Letter

Global Id:	T0603705190
Action Type:	Other
Date:	08/26/1997
Action:	Leak Reported

Global Id:	T0603705190
Action Type:	RESPONSE
Date:	09/01/2006
Action:	Interim Remedial Action Plan

RAPID STATION #12 (Continued) **S103281796**

Global Id: T0603705190
Action Type: RESPONSE
Date: 07/15/2008
Action: Remedial Progress Report

Global Id: T0603705190
Action Type: ENFORCEMENT
Date: 05/14/2009
Action: Closure/No Further Action Letter - #04/15/2009

Global Id: T0603705190
Action Type: ENFORCEMENT
Date: 04/29/2009
Action: Site Visit / Inspection / Sampling

Global Id: T0603705190
Action Type: RESPONSE
Date: 12/15/2008
Action: Soil and Water Investigation Report

Global Id: T0603705190
Action Type: RESPONSE
Date: 07/08/2008
Action: Soil and Water Investigation Workplan

Global Id: T0603705190
Action Type: RESPONSE
Date: 05/05/2004
Action: CAP/RAP - Feasibility Study Report

Global Id: T0603705190
Action Type: ENFORCEMENT
Date: 06/13/2002
Action: Staff Letter

Global Id: T0603705190
Action Type: ENFORCEMENT
Date: 01/03/2002
Action: Staff Letter

Global Id: T0603705190
Action Type: REMEDIATION
Date: 05/23/1997
Action: Excavation

Global Id: T0603705190
Action Type: RESPONSE
Date: 04/23/2009
Action: Other Report / Document

Global Id: T0603705190
Action Type: RESPONSE
Date: 03/03/2002
Action: Preliminary Site Assessment Report

Global Id: T0603705190
Action Type: RESPONSE

RAPID STATION #12 (Continued) **S103281796**

Date: 07/31/2002
Action: Other Report / Document

Global Id: T0603705190
Action Type: ENFORCEMENT
Date: 12/07/2006
Action: Staff Letter

Global Id: T0603705190
Action Type: REMEDIATION
Date: 05/31/2007
Action: Soil Vapor Extraction (SVE)

Global Id: T0603705190
Action Type: Other
Date: 08/19/1997
Action: Leak Discovery

Global Id: T0603705190
Action Type: ENFORCEMENT
Date: 10/05/2001
Action: Staff Letter

Global Id: T0603705190
Action Type: Other
Date: 05/22/1997
Action: Leak Stopped

Global Id: T0603705190
Action Type: RESPONSE
Date: 11/05/2007
Action: CAP/RAP - Feasibility Study Report

LUST:
Global Id: T0603705190
Status: Completed - Case Closed
Status Date: 05/14/2009

Global Id: T0603705190
Status: Open - Case Begin Date
Status Date: 05/22/1997

Global Id: T0603705190
Status: Open - Site Assessment
Status Date: 08/07/2001

Global Id: T0603705190
Status: Open - Site Assessment
Status Date: 01/03/2002

Global Id: T0603705190
Status: Open - Site Assessment
Status Date: 07/29/2002

Global Id: T0603705190
Status: Open - Verification Monitoring
Status Date: 08/26/1997

RAPID STATION #12 (Continued) **S103281796**

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	R-13323	
Status:	Preliminary site assessment underway	
Substance:	Hydrocarbons	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		OT
Global ID:	T0603705190	
W Global ID:	Not reported	
Staff:	NC	
Local Agency:	19000	
Cross Street:	HAMILTON AVE	
Enforcement Type:	LET	
Date Leak Discovered:	8/19/1997	
Date Leak First Reported:		8/26/1997
Date Leak Record Entered:	10/1/1997	
Date Confirmation Began:	8/7/2001	
Date Leak Stopped:	5/22/1997	
Date Case Last Changed on Database:		7/9/2002
Date the Case was Closed:		Not reported
How Leak Discovered:	Tank Closure	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	JEFF APPEL	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		4356.7586318652186938731899131
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		1/3/2002
Preliminary Site Assessment Began:		7/29/2002
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		8/26/1997
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:	KARL KERNER	
RP Address:	18525 S. MAIN ST.	
Program:	LUST	
Lat/Long:	34.0620006 / -1	
Local Agency Staff:	Not reported	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	

RAPID STATION #12 (Continued) **S103281796**

Assigned Name: Not reported
Summary: TPH=5000 PPM, MTBE=220PPM, BTEX=55/130/150/810 PPM

HIST CORTESE:
edr_fname: UNITED OIL #12
edr_fadd1: 790 HOLT
City,State,Zip: POMONA, CA 91766
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: R-13323

CERS TANKS:
Site ID: 229006
CERS ID: T0603705190
Site Name: RAPID STATION #12
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: NOMAN CHOWDHURY - LOS ANGELES RWQCB (REGION 4)
Entity Title: Not reported
Affiliation Address: 320 WEST 4TH STREET, SUITE 200
Affiliation City: LOS ANGELES
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 2135766704

Affiliation Type Desc: Local Agency Caseworker
Entity Name: JOHN AWUJO - LOS ANGELES COUNTY
Entity Title: Not reported
Affiliation Address: 900 S FREMONT AVE
Affiliation City: ALHAMBRA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 6264583507

12
SSE
1/4-1/2
0.426 mi.
2248 ft.

ESTATE OF JOHN H CATRON **LUST S111345543**
770 WEST HOLT AVENUE **CERS N/A**
POMONA, CA 91766

Relative:
Lower

Actual:
854 ft.

LUST:
Lead Agency: SWRCB
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T10000003423
Global Id: T10000003423
Latitude: 34.0617169206058
Longitude: -117.762408256531
Status: Completed - Case Closed
Status Date: 07/03/2018
Case Worker: MC
RB Case Number: Not reported

ESTATE OF JOHN H CATRON (Continued) **S111345543**

Local Agency:	LOS ANGELES COUNTY
File Location:	Local Agency
Local Case Number:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Other Petroleum, Waste Oil / Motor / Hydraulic / Lubricating
Site History:	There is a State Water Board closure Order for this case issued 4/13/2015. The State Water Board needs confirmation that the corrective action wells and wastes have been removed from the site in order to close the case. Once confirmation has been received State Water Board can issue a Uniform Closure Letter and close the case. Attempts to reach the RP have failed. gwl 4/14/2016.

LUST:

Global Id:	T10000003423
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:	T10000003423
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

LUST:

Global Id:	T10000003423
Action Type:	Other
Date:	05/19/2000
Action:	Leak Stopped

Global Id:	T10000003423
Action Type:	Other
Date:	12/07/2011
Action:	Leak Reported

Global Id:	T10000003423
Action Type:	ENFORCEMENT
Date:	07/03/2018
Action:	Closure/No Further Action Letter

Global Id:	T10000003423
Action Type:	ENFORCEMENT
Date:	12/22/2011
Action:	Staff Letter

Global Id:	T10000003423
Action Type:	ENFORCEMENT
Date:	05/13/2013
Action:	Referral to Regional Board

ESTATE OF JOHN H CATRON (Continued) **S111345543**

Global Id: T10000003423
Action Type: ENFORCEMENT
Date: 12/17/2014
Action: Notification - Public Notice of Case Closure

Global Id: T10000003423
Action Type: ENFORCEMENT
Date: 04/13/2015
Action: State Water Board Closure Order

Global Id: T10000003423
Action Type: ENFORCEMENT
Date: 04/19/2018
Action: Site Visit / Inspection / Sampling

Global Id: T10000003423
Action Type: Other
Date: 05/19/2000
Action: Leak Discovery

LUST:
Global Id: T10000003423
Status: Completed - Case Closed
Status Date: 07/03/2018

Global Id: T10000003423
Status: Open - Case Begin Date
Status Date: 05/19/2000

Global Id: T10000003423
Status: Open - Eligible for Closure
Status Date: 03/04/2015

Global Id: T10000003423
Status: Open - Site Assessment
Status Date: 12/07/2011

CERS TANKS:
Site ID: 224984
CERS ID: T10000003423
Site Name: ESTATE OF JOHN H CATRON
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: PHILLIP GHARIBIANS-TABRIZI - LOS ANGELES COUNTY
Entity Title: Not reported
Affiliation Address: 900 S. FREMONT AVE.
Affiliation City: ALHAMBRA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Regional Board Caseworker
Entity Name: MATTHEW COHEN - SWRCB

ESTATE OF JOHN H CATRON (Continued) **S111345543**

Entity Title:	Not reported
Affiliation Address:	1001 I Street
Affiliation City:	SACRAMENTO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9163415751

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13 **COTEZ AUTOMOTIVE** **LUST S108418290**
ENE **1212 WHITE AVE. N** **CERS N/A**
1/4-1/2 **POMONA, CA 91768**
0.441 mi.
2331 ft.

Relative:
Higher

Actual:
891 ft.

LUST:

Lead Agency:	LOS ANGELES COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603716466
Global Id:	T0603716466
Latitude:	34.070096
Longitude:	-117.758919
Status:	Completed - Case Closed
Status Date:	02/27/2007
Case Worker:	MRR
RB Case Number:	Not reported
Local Agency:	LOS ANGELES COUNTY
File Location:	Not reported
Local Case Number:	011858-011926
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline, Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Not reported

LUST:

Global Id:	T0603716466
Contact Type:	Local Agency Caseworker
Contact Name:	MANUEL R REGALADO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S. FREMONT AVE.
City:	ALHAMBRA
Email:	mregalad@dpw.lacounty.gov
Phone Number:	Not reported

Global Id:	T0603716466
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

LUST:

Global Id:	T0603716466
Action Type:	Other
Date:	01/31/2001
Action:	Leak Reported

COTEZ AUTOMOTIVE (Continued) **S108418290**

Global Id: T0603716466
Action Type: REMEDIATION
Date: 01/23/2007
Action: Not reported

Global Id: T0603716466
Action Type: Other
Date: 06/16/1999
Action: Leak Discovery

Global Id: T0603716466
Action Type: ENFORCEMENT
Date: 02/27/2007
Action: Closure/No Further Action Letter

LUST:
Global Id: T0603716466
Status: Completed - Case Closed
Status Date: 02/27/2007

Global Id: T0603716466
Status: Open - Case Begin Date
Status Date: 06/16/1999

Global Id: T0603716466
Status: Open - Site Assessment
Status Date: 01/23/2007

Global Id: T0603716466
Status: Open - Site Assessment
Status Date: 02/26/2007

CERS TANKS:
Site ID: 257816
CERS ID: T0603716466
Site Name: COTEZ AUTOMOTIVE
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: MANUEL R REGALADO - LOS ANGELES COUNTY
Entity Title: Not reported
Affiliation Address: 900 S. FREMONT AVE.
Affiliation City: ALHAMBRA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Regional Board Caseworker
Entity Name: YUE RONG - LOS ANGELES RWQCB (REGION 4)
Entity Title: Not reported
Affiliation Address: 320 W. 4TH ST., SUITE 200
Affiliation City: Los Angeles
Affiliation State: CA
Affiliation Country: Not reported

COTEZ AUTOMOTIVE (Continued) **S108418290**

Affiliation Zip: Not reported
Affiliation Phone: Not reported

14
SW
1/4-1/2
0.475 mi.
2508 ft.

Relative:
Lower

Actual:
831 ft.

OMNI BANK
1407 W HOLT AVE
POMONA, CA 91768

RCRA-SQG **1000244735**
LUST **CAD982476061**
CERS HAZ WASTE
FINDS
ECHO
EMI

RCRA-SQG:
Date form received by agency: 07/01/1988
Facility name: OMNI BANK
Facility address: 1407 W HOLT AVE
POMONA, CA 91768
EPA ID: CAD982476061
Mailing address: 111 NORTH ATLANTIC BLVD
MONTERY PARK, CA 91754
Contact: ENVIRONMENTAL MANAGER
Contact address: 1407 W HOLT AVE
POMONA, CA 91768
Contact country: US
Contact telephone: 818-289-1133
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: OMNI BANK
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator

OMNI BANK (Continued) **1000244735**

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

LUST:
Lead Agency: LOS ANGELES COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603704269
Global Id: T0603704269
Latitude: 34.0516012
Longitude: -118.1390296
Status: Completed - Case Closed
Status Date: 01/17/1990
Case Worker: JOA
RB Case Number: I-15170
Local Agency: LOS ANGELES COUNTY
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

LUST:
Global Id: T0603704269
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: T0603704269
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

OMNI BANK (Continued) **1000244735**

LUST:
Global Id: T0603704269
Action Type: Other
Date: 01/17/1990
Action: Leak Reported

LUST:
Global Id: T0603704269
Status: Completed - Case Closed
Status Date: 01/17/1990

Global Id: T0603704269
Status: Open - Case Begin Date
Status Date: 01/17/1990

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	I-15170	
Status:	Case Closed	
Substance:	Waste Oil	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603704269	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19000	
Cross Street:	Not reported	
Enforcement Type:	Not reported	
Date Leak Discovered:	Not reported	
Date Leak First Reported:		1/17/1990
Date Leak Record Entered:	2/5/1990	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		2/16/1990
Date the Case was Closed:		1/17/1990
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):		6876.81522992170442681007 43254
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

OMNI BANK (Continued) **1000244735**

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: OMNI BANK
RP Address: P.O. BOX 2900, MONTEREY, 91754
Program: LUST
Lat/Long: 34.0516012 / -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

CERS HAZ WASTE:
Site ID: 430389
CERS ID: 10310389
CERS Description: Hazardous Waste Generator

Violations:
Site ID: 430389
Site Name: ARTURO'S BODY & PAINT
Violation Date: 08-22-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 12/08/2017. OBSERVATION: The business failed to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page. CORRECTIVE ACTION: Complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page. Mark yes as a hazardous waste generator. Go to http://cers.calepa.ca.gov
Violation Division: Los Angeles County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 430389
Site Name: ARTURO'S BODY & PAINT
Violation Date: 08-22-2017
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes: Returned to compliance on 12/08/2017. OBSERVATION: The generator's EPA ID number is inactive. A hazardous waste generator shall not treat, store, dispose of, transport or offer for transportation, hazardous waste without an active EPA ID number. CORRECTIVE ACTION: Submit documentation to the CUPA demonstrating that you have reactivated the facility's EPA ID number.

OMNI BANK (Continued) **1000244735**

Violation Division: Los Angeles County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 430389
Site Name: ARTURO'S BODY & PAINT
Violation Date: 08-22-2017
Citation: 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description: Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.
Violation Notes: Returned to compliance on 12/08/2017. OBSERVATION: Uniform Hazardous Waste Manifests for waste paint were not available at the time of inspection. CORRECTIVE ACTION: Locate a copy of the most recent manifests for waste paint and submit copy to the CUPA. Email it to assumpta.desilva@fire.lacounty.gov
Violation Division: Los Angeles County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 430389
Site Name: ARTURO'S BODY & PAINT
Violation Date: 07-19-2013
Citation: 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description: Failure to maintain uniform hazardous waste manifest, consolidated manifest, or bills of lading copies for three years.
Violation Notes: Returned to compliance on 01/17/2014. FACILITY FAILED TO MAINITAIN COPIES OF MANIFEST FOR 3 YEARS. EMAIL THE MOST RECENT RECEIPT SHOWING DISPOSAL OF WASTE SOLVENT.
Violation Division: Los Angeles County Fire Department
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-19-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-19-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: INSPECTED BY A. DESILVA CONSENT GIVEN BY ARTURO GARCIA
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown

OMNI BANK (Continued) **1000244735**

Eval Date: 12-07-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-08-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-22-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ARTURO GARCIA
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 430389
Site Name: ARTURO'S BODY & PAINT
Site Address: 1407 W HOLT AVE # B
Site City: POMONA
Site Zip: 91768
Enf Action Date: 07-19-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Los Angeles County Fire Department
Enf Action Program: HW
Enf Action Source: CERS

Affiliation:
Affiliation Type Desc: Operator
Entity Name: ARTURO GARCIA
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (909) 865-7434

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1407 W HOLT AVE #B
Affiliation City: POMONA

OMNI BANK (Continued) **1000244735**

Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91768
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	ARTURO'S BODY & PAINT
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	Los Angeles County Fire
Entity Title:	Not reported
Affiliation Address:	5825 Rickenbacker Road
Affiliation City:	Commerce
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90040-3027
Affiliation Phone:	(323) 890-4045
Affiliation Type Desc:	Environmental Contact
Entity Name:	Jennifer Garcia
Entity Title:	Not reported
Affiliation Address:	1407 w. holt ave
Affiliation City:	pomona ca
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91768
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	ARTURO GARCIA
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	ARTURO GARCIA
Entity Title:	Not reported
Affiliation Address:	1407 W HOLT AVE # B
Affiliation City:	pomona ca
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91768
Affiliation Phone:	(626) 422-0161

OMNI BANK (Continued) **1000244735**

FINDS:

Registry ID: 110002822802

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:	1000244735
Registry ID:	110002822802
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002822802

EMI:

Year:	1987
County Code:	19
Air Basin:	SC
Facility ID:	43107
Air District Name:	SC
SIC Code:	7261
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

15
WNW
1/2-1
0.509 mi.
2687 ft.

DUDLEY-MURCHISON SCHOOL **ENVIROSTOR** **S105628463**
1325-1391 JACQUELINE DR/1336-1560 MURCHISON AVE **SCH** **N/A**
POMONA, CA 91768

Relative:
Lower

Actual:
838 ft.

ENVIROSTOR:

Name:	DUDLEY-MURCHISON SCHOOL
Address:	1325-1391 JACQUELINE DR/1336-1560 MURCHISON AVE
City,State,Zip:	POMONA, CA 91768
Facility ID:	19010011
Status:	No Further Action
Status Date:	04/23/2003
Site Code:	304207
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	10

DUDLEY-MURCHISON SCHOOL (Continued) **S105628463**

NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Kamili Siglowide
Supervisor: Javier Hinojosa
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 52
Senate: 20
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 34.07095
Longitude: -117.7785
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: Chlordane DDT Lead Mercury (elemental Chromium VI Nickel
Confirmed COC: 30153-NO Nickel Chlordane 30008-NO Lead Mercury (elemental
Potential Description: SOIL
Alias Name: DUDLEY-MURCHISON SCHOOL
Alias Type: Alternate Name
Alias Name: POMONA UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: POMONA USD/DUDLEY & MURCHISON AVE/VCA
Alias Type: Alternate Name
Alias Name: 304207
Alias Type: Project Code (Site Code)
Alias Name: 19010011
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 04/23/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 11/27/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/31/2000
Comments: Draft Background Review & Proposed Sampling Plan

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 12/05/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement

DUDLEY-MURCHISON SCHOOL (Continued) **S105628463**

Completed Date:	11/29/2000
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	05/08/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	12/10/2001
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Public Participation
Completed Date:	01/14/2003
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:	19010011
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	10
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Kamili Siglowide
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304207
Assembly:	52
Senate:	20
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	04/23/2003
Restricted Use:	NO
Funding:	School District
Latitude:	34.07095
Longitude:	-117.7785
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - ROW CROPS

DUDLEY-MURCHISON SCHOOL (Continued) **S105628463**

Potential COC:	Chlordane, DDT, Lead, Mercury (elemental, Chromium VI, Nickel
Confirmed COC:	30153-NO, Nickel, Chlordane, 30008-NO, Lead, Mercury (elemental
Potential Description:	SOIL
Alias Name:	DUDLEY-MURCHISON SCHOOL
Alias Type:	Alternate Name
Alias Name:	POMONA UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	POMONA USD/DUDLEY & MURCHISON AVE/VCA
Alias Type:	Alternate Name
Alias Name:	304207
Alias Type:	Project Code (Site Code)
Alias Name:	19010011
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	04/23/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	11/27/2001
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	07/31/2000
Comments:	Draft Background Review & Proposed Sampling Plan
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	12/05/2001
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	11/29/2000
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	05/08/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	12/10/2001
Comments:	Not reported
Completed Area Name:	PROJECT WIDE

DUDLEY-MURCHISON SCHOOL (Continued) **S105628463**

Completed Sub Area Name:	Not reported
Completed Document Type:	* Public Participation
Completed Date:	01/14/2003
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

D16 **CALSOL INC.** **ENVIROSTOR** **S107735992**
SSE **822 WEST COMMERCIAL** **VCP** **N/A**
1/2-1 **POMONA, CA 91761**
0.572 mi.
3020 ft. **Site 1 of 2 in cluster D**

Relative: **Lower**

Actual: **846 ft.**

ENVIROSTOR:

Name:	CALSOL INC.
Address:	822 WEST COMMERCIAL
City,State,Zip:	POMONA, CA 91761
Facility ID:	60000137
Status:	Active
Status Date:	12/15/2005
Site Code:	301274
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	1.2
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Jessy Fierro
Supervisor:	Juli Propes
Division Branch:	Cleanup Chatsworth
Assembly:	52
Senate:	20
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	34.05904
Longitude:	-117.7638
APN:	8348-011-038, 8348011038
Past Use:	DISTRIBUTOR - CHEMICAL
Potential COC:	Tetrachloroethylene (PCE Trichloroethylene (TCE
Confirmed COC:	Tetrachloroethylene (PCE Trichloroethylene (TCE
Potential Description:	OTH, SOIL, SV, SV, SV
Alias Name:	8348-011-038
Alias Type:	APN
Alias Name:	8348011038
Alias Type:	APN
Alias Name:	110033606168
Alias Type:	EPA (FRS #)
Alias Name:	SL0603734054

CALSOL INC. (Continued) **S107735992**

Alias Type: GeoTracker Global ID
Alias Name: SL0603760626
Alias Type: GeoTracker Global ID
Alias Name: SL0603794491
Alias Type: GeoTracker Global ID
Alias Name: 301274
Alias Type: Project Code (Site Code)
Alias Name: 60000137
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/06/2016
Comments: DTSC cost estimate for oversight of Removal Action Workplan implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 04/24/2017
Comments: Amended VCA signed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 03/05/2018
Comments: City of Pomona response to DTSC’s recommendation for additional sampling and mitigation for homes where indoor air sampling was recently conducted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 06/07/2007
Comments: Work plan accepted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 03/20/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 04/29/2016
Comments: The report describes soil and soil gas sampling activities conducted in 2014 and 2015 at the Calsol Site and Sewer lot. Based on the results, indoor air sampling was conducted, along with the installation and operation of a pilot soil vapor extraction system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 11/17/2010
Comments: Done.

CALSOL INC. (Continued) **S107735992**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 10/14/2016
Comments: Removal Action Workplan for soil vapor extraction approved by DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 09/20/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 11/17/2017
Comments: Based on indoor air sampling results, DTSC recommends a mitigation plan be submitted for homes with elevated cancer risk (above 1x10-6).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/15/2009
Comments: Done

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/18/2010
Comments: mailed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/31/2012
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 03/30/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 02/22/2013
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 03/24/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

CALSOL INC. (Continued) **S107735992**

Completed Document Type: Site Characterization Workplan
Completed Date: 04/29/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 08/06/2015
Comments: Workplan approved to obtain additional soil gas data.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Treatability Study Workplan
Completed Date: 11/21/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Treatability Study Report
Completed Date: 12/11/2015
Comments: DTSC reviewed pilot SVE data and recommended changes.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/10/2015
Comments: A notice for a public meeting was sent to the neighborhood surrounding Calsol. At the meeting, we will provide an update on the completed activities and upcoming work.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 07/14/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 10/28/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 07/04/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 08/31/2009
Comments: Additional ground water characterization needed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report

CALSOL INC. (Continued) **S107735992**

Completed Date: 07/16/2010
Comments: further action needed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 04/07/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 04/08/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 04/09/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 04/28/2015
Comments: Indoor Air Sampling Workplan approved. Sampling planned for mid-May.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 07/14/2015
Comments: Delay in Pilot SVE start-up due to equipment delivery. Start-up planned for Monday, July 20, 2015.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 11/19/2003
Comments: Calsol impacts discovered while investigating adjacent property.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/18/2016
Comments: Fact Sheet describing the Removal Action Workplan and public comment process has been mailed out to the community.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 07/18/2016
Comments: The Public Notice will be published in the Inland Valley Daily Bulletin and La Opinion.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report

CALSOL INC. (Continued) **S107735992**

Completed Date: 05/02/2016
Comments: Report describes indoor air sampling activities conducted in 2015 at 11 residences near the Calsol Site. Based on the recent data and the current operation of the SVE, further action at the homes was not necessary. DTSC may require additional indoor air sampling based on soil gas data.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 02/08/2017
Comments: Soil vapor extraction start-up performed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 05/17/2017
Comments: DTSC approved Indoor Air Quality Survey Work Plan with the condition that DTSC's recent comments be addressed prior to beginning sampling activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 01/28/2017
Comments: DTSC visited the neighborhood near the Calsol property to obtain access agreements for indoor air sampling.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/03/2016
Comments: DTSC accepts monitoring report. Soil vapor will continue to be monitored.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/01/2017
Comments: Based on the indoor air sampling results, DTSC recommended the City address indoor air results for homes with elevated risk.
Additionally, DTSC recommended that SVE should be modified to address elevated soil gas concentrations near Calsol property.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/07/2017
Comments: Indoor Air Sampling performed by Ensafe.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/18/2016
Comments: DTSC conducted oversight of soil vapor and groundwater sampling activities.

CALSOL INC. (Continued) **S107735992**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 01/24/2017
Comments: A work notice has been distributed to the community surrounding the Calsol Site describing the upcoming start-up of the soil vapor extraction system and indoor air sampling in nearby homes.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 12/18/2013
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/03/2005
Comments: First of two transfer letters

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 05/04/2006
Comments: Second of two transfer letters

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 07/19/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/31/2016
Comments: Oversight during well installation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/02/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/08/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/08/2018
Comments: DTSC reviewed First Quarter Monitoring Report and required changes.

Completed Area Name: PROJECT WIDE

CALSOL INC. (Continued) **S107735992**

Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 09/18/2018
Comments: DTSC oversight during sampling event.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 04/16/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 09/28/2004
Comments: Report of lot across Hamilton Avenue, apparently impacted by Calsol

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/18/2014
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/09/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Access Agreement
Completed Date: 10/18/2016
Comments: DTSC reviewed access agreement prepared by City of Pomona to access homes for additional indoor air sampling.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 10/14/2016
Comments: CEQA Negative Declaration finalized for Removal Action Workplan and submitted to State Clearinghouse.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Final Determination of Non-Compliance
Completed Date: 05/07/2008
Comments: Sent via certified mail and included invoices.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2022
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: CEQA - Notice of Exemption
Future Due Date: 2020

CALSOL INC. (Continued) **S107735992**

Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Removal Action Completion Report
Future Due Date:	2020
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Removal Action Completion Report
Future Due Date:	2022
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Removal Action Workplan
Future Due Date:	2020
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Fact Sheets
Future Due Date:	2019
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Certification
Future Due Date:	2020
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

VCP:

Facility ID:	60000137
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1.2
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Jessy Fierro
Supervisor:	Juli Propes
Division Branch:	Cleanup Chatsworth
Site Code:	301274
Assembly:	52
Senate:	20
Special Programs Code:	Voluntary Cleanup Program
Status:	Active
Status Date:	12/15/2005
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	34.05904 / -117.7638
APN:	8348-011-038, 8348011038
Past Use:	DISTRIBUTOR - CHEMICAL
Potential COC:	30022, 30027
Confirmed COC:	30022,30027
Potential Description:	OTH, SOIL, SV, SV, SV
Alias Name:	8348-011-038
Alias Type:	APN
Alias Name:	8348011038
Alias Type:	APN

CALSOL INC. (Continued) **S107735992**

Alias Name: 110033606168
Alias Type: EPA (FRS #)
Alias Name: SL0603734054
Alias Type: GeoTracker Global ID
Alias Name: SL0603760626
Alias Type: GeoTracker Global ID
Alias Name: SL0603794491
Alias Type: GeoTracker Global ID
Alias Name: 301274
Alias Type: Project Code (Site Code)
Alias Name: 60000137
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/06/2016
Comments: DTSC cost estimate for oversight of Removal Action Workplan implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 04/24/2017
Comments: Amended VCA signed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 03/05/2018
Comments: City of Pomona response to DTSC’s recommendation for additional sampling and mitigation for homes where indoor air sampling was recently conducted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 06/07/2007
Comments: Work plan accepted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 03/20/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 04/29/2016
Comments: The report describes soil and soil gas sampling activities conducted in 2014 and 2015 at the Calsol Site and Sewer lot. Based on the results, indoor air sampling was conducted, along with the installation and operation of a pilot soil vapor extraction system.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

CALSOL INC. (Continued) **S107735992**

Completed Document Type: Site Characterization Workplan
Completed Date: 11/17/2010
Comments: Done.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 10/14/2016
Comments: Removal Action Workplan for soil vapor extraction approved by DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 09/20/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 11/17/2017
Comments: Based on indoor air sampling results, DTSC recommends a mitigation plan be submitted for homes with elevated cancer risk (above 1x10-6).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/15/2009
Comments: Done

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/18/2010
Comments: mailed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/31/2012
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)
Completed Date: 03/30/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 02/22/2013
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 03/24/2004

CALSOL INC. (Continued) **S107735992**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 04/29/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 08/06/2015
Comments: Workplan approved to obtain additional soil gas data.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Treatability Study Workplan
Completed Date: 11/21/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Treatability Study Report
Completed Date: 12/11/2015
Comments: DTSC reviewed pilot SVE data and recommended changes.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/10/2015
Comments: A notice for a public meeting was sent to the neighborhood surrounding Calsol. At the meeting, we will provide an update on the completed activities and upcoming work.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 07/14/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 10/28/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 07/04/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 08/31/2009
Comments: Additional ground water characterization needed.

CALSOL INC. (Continued) **S107735992**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 07/16/2010
Comments: further action needed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 04/07/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 04/08/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 04/09/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 04/28/2015
Comments: Indoor Air Sampling Workplan approved. Sampling planned for mid-May.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 07/14/2015
Comments: Delay in Pilot SVE start-up due to equipment delivery. Start-up planned for Monday, July 20, 2015.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 11/19/2003
Comments: Calsol impacts discovered while investigating adjacent property.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/18/2016
Comments: Fact Sheet describing the Removal Action Workplan and public comment process has been mailed out to the community.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 07/18/2016
Comments: The Public Notice will be published in the Inland Valley Daily Bulletin and La Opinion.

CALSOL INC. (Continued) **S107735992**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/02/2016
Comments: Report describes indoor air sampling activities conducted in 2015 at 11 residences near the Calsol Site. Based on the recent data and the current operation of the SVE, further action at the homes was not necessary. DTSC may require additional indoor air sampling based on soil gas data.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 02/08/2017
Comments: Soil vapor extraction start-up performed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 05/17/2017
Comments: DTSC approved Indoor Air Quality Survey Work Plan with the condition that DTSC's recent comments be addressed prior to beginning sampling activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 01/28/2017
Comments: DTSC visited the neighborhood near the Calsol property to obtain access agreements for indoor air sampling.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/03/2016
Comments: DTSC accepts monitoring report. Soil vapor will continue to be monitored.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/01/2017
Comments: Based on the indoor air sampling results, DTSC recommended the City address indoor air results for homes with elevated risk.
Additionally, DTSC recommended that SVE should be modified to address elevated soil gas concentrations near Calsol property.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/07/2017
Comments: Indoor Air Sampling performed by Ensafe.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/18/2016

CALSOL INC. (Continued) **S107735992**

Comments: DTSC conducted oversight of soil vapor and groundwater sampling activities.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 01/24/2017
Comments: A work notice has been distributed to the community surrounding the Calsol Site describing the upcoming start-up of the soil vapor extraction system and indoor air sampling in nearby homes.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 12/18/2013
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/03/2005
Comments: First of two transfer letters

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 05/04/2006
Comments: Second of two transfer letters

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 07/19/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/31/2016
Comments: Oversight during well installation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/02/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/08/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/08/2018

CALSOL INC. (Continued) **S107735992**

Comments:	DTSC reviewed First Quarter Monitoring Report and required changes.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	09/18/2018
Comments:	DTSC oversight during sampling event.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	04/16/2015
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	09/28/2004
Comments:	Report of lot across Hamilton Avenue, apparently impacted by Calsol
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/18/2014
Comments:	completed
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	11/09/2015
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Access Agreement
Completed Date:	10/18/2016
Comments:	DTSC reviewed access agreement prepared by City of Pomona to access homes for additional indoor air sampling.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Initial Study/ Neg. Declaration
Completed Date:	10/14/2016
Comments:	CEQA Negative Declaration finalized for Removal Action Workplan and submitted to State Clearinghouse.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Final Determination of Non-Compliance
Completed Date:	05/07/2008
Comments:	Sent via certified mail and included invoices.
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Certification
Future Due Date:	2022
Future Area Name:	PROJECT WIDE

CALSOL INC. (Continued) **S107735992**

Future Sub Area Name:	Not reported
Future Document Type:	CEQA - Notice of Exemption
Future Due Date:	2020
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Removal Action Completion Report
Future Due Date:	2020
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Removal Action Completion Report
Future Due Date:	2022
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Removal Action Workplan
Future Due Date:	2020
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Fact Sheets
Future Due Date:	2019
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Certification
Future Due Date:	2020
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

D17 **SEWER LOT** **ENVIROSTOR** **S113186475**
SSE **198 NORTH HAMILTON BLVD.** **VCP** **N/A**
1/2-1 **POMONA, CA 91768** **DEED**
0.587 mi. **LA Co. Site Mitigation**
3100 ft. **Site 2 of 2 in cluster D**

Relative: **Lower**
Actual: **846 ft.**

ENVIROSTOR:

Name:	SEWER LOT
Address:	198 NORTH HAMILTON BLVD.
City,State,Zip:	POMONA, CA 91768
Facility ID:	60001872
Status:	Certified / Operation & Maintenance
Status Date:	05/07/2018
Site Code:	301597
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	0.73
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Jessy Fierro
Supervisor:	Allan Plaza
Division Branch:	Cleanup Chatsworth
Assembly:	61, 52
Senate:	20
Special Program:	Voluntary Cleanup Program
Restricted Use:	YES
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party

SEWER LOT (Continued) **S113186475**

Latitude: 34.05903
Longitude: -117.7628
APN: 8348013903
Past Use: FUEL TERMINALS, UNKNOWN
Potential COC: Under Investigation Tetrachloroethylene (PCE TPH-diesel TPH-gas Trichloroethylene (TCE
Confirmed COC: 30022-NO 30024-NO 30025-NO 30027-NO Under Investigation
Potential Description: CSS, OTH, SOIL, SV, UE
Alias Name: Arco Lot
Alias Type: Alternate Name
Alias Name: 8348013903
Alias Type: APN
Alias Name: 301597
Alias Type: Project Code (Site Code)
Alias Name: 60001872
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/15/2016
Comments: Cost estimate for DTSC oversight for Fiscal Year 2016-2017 prepared and sent to NHorton.

Completed Area Name: Soil
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 04/06/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/22/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 04/24/2017
Comments: Amended VCA signed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 02/22/2013
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 12/18/2013
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate

SEWER LOT (Continued) **S113186475**

Completed Date: 11/09/2015
Comments: Cost estimate sent to City of Pomona based on upcoming review of Characterization Report. Estimate may be revised if remediation is necessary.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/18/2014
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 07/10/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 12/21/2016
Comments: Characterization Report conditionally approved with the understanding that a Land Use Covenant will be recorded and any excavation or trenching activities be reviewed for DTSC approval.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 10/23/2017
Comments: The revised Operation and Maintenance Plan, dated September 1, 2017, includes installation and maintenance of an asphalt cover and annual inspections. DTSC approved the O&M Plan.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Facility ID: 60001872
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 0.73
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Jessy Fierro
Supervisor: Allan Plaza
Division Branch: Cleanup Chatsworth
Site Code: 301597

SEWER LOT (Continued) **S113186475**

Assembly:	61, 52
Senate:	20
Special Programs Code:	Voluntary Cleanup Program
Status:	Certified / Operation & Maintenance
Status Date:	05/07/2018
Restricted Use:	YES
Funding:	Responsible Party
Lat/Long:	34.05903 / -117.7628
APN:	8348013903
Past Use:	FUEL TERMINALS, UNKNOWN
Potential COC:	31001, 30022, 30024, 30025, 30027
Confirmed COC:	30022-NO,30024-NO,30025-NO,30027-NO,31001
Potential Description:	CSS, OTH, SOIL, SV, UE
Alias Name:	Arco Lot
Alias Type:	Alternate Name
Alias Name:	8348013903
Alias Type:	APN
Alias Name:	301597
Alias Type:	Project Code (Site Code)
Alias Name:	60001872
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	11/15/2016
Comments:	Cost estimate for DTSC oversight for Fiscal Year 2016-2017 prepared and sent to NHorton.
Completed Area Name:	Soil
Completed Sub Area Name:	Not reported
Completed Document Type:	Operation & Maintenance Order/Agreement
Completed Date:	04/06/2018
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	08/22/2017
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Amendment - Order/Agreement
Completed Date:	04/24/2017
Comments:	Amended VCA signed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	02/22/2013
Comments:	completed
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	12/18/2013

SEWER LOT (Continued) **S113186475**

Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/09/2015
Comments: Cost estimate sent to City of Pomona based on upcoming review of Characterization Report. Estimate may be revised if remediation is necessary.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/18/2014
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 07/10/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 12/21/2016
Comments: Characterization Report conditionally approved with the understanding that a Land Use Covenant will be recorded and any excavation or trenching activities be reviewed for DTSC approval.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 10/23/2017
Comments: The revised Operation and Maintenance Plan, dated September 1, 2017, includes installation and maintenance of an asphalt cover and annual inspections. DTSC approved the O&M Plan.

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

DEED:
Envirostor ID: 60001872
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: VOLUNTARY CLEANUP
Status: CERTIFIED / OPERATION & MAINTENANCE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 07/10/2017

SEWER LOT (Continued) **S113186475**

File Name: Envirostor Land Use Restrictions

LA Co. Site Mitigation:
Name: CITY OF POMONA - PAYNES
Address: 198 N HAMILTON BLVD
City,State,Zip: POMONA, CA 91768
Facility ID: Not reported
Status: Not reported
Site ID: SD0010147
Jurisdiction: Not reported
Case ID: RO0000379
Abated: Yes
Assigned To: JN
Entered Date: Not reported
Abated Date: 01/01/1991

18
SSE
1/2-1
0.643 mi.
3393 ft.

SO CAL GAS/POMONA MGP **EDR MGP** **1008407735**
COMMERCIAL AVE AND HUNTINGTON ST **N/A**
POMONA, CA 91766

Relative:
Lower

Actual:
851 ft.

Manufactured Gas Plants:

Located at 148 North Huntington Street, Pomona, California. Site approximately 1.3 acres. From 1887 until 1917, coal gas and oil gas plant operated at site. Site believed to have been converted to a natural gas storage and Distribution Facility durinng 1917. Remained in operation as natural gas storage and distribution facility until 1955. City of Pomona Water Department has utilized the site as a corporate yard and operating base since 1955. A VCA was signed in

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19
SSE
1/2-1
0.726 mi.
3834 ft.

POMONA CORPORATE YARD **ENVIROSTOR** **S101297800**
148 NORTH HUNTINGTON STREET **LUST** **N/A**
POMONA, CA 91768 **VCP**
Cortese
HIST CORTESE
CERS

Relative:
Lower

Actual:
846 ft.

ENVIROSTOR:
Name: POMONA CORPORATE YARD
Address: 148 NORTH HUNTINGTON STREET
City,State,Zip: POMONA, CA 91768
Facility ID: 60002119
Status: Inactive - Action Required
Status Date: 11/06/2014
Site Code: 301244
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 0.5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Narine Aghakiant
Supervisor: Allan Plaza
Division Branch: Cleanup Chatsworth
Assembly: 61, 52
Senate: 20
Special Program: Voluntary Cleanup Program

POMONA CORPORATE YARD (Continued) **S101297800**

Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 34.05954
Longitude: -117.7608
APN: 8340032909
Past Use: FUEL TERMINALS, MACHINE SHOP, UNDERGROUND STORAGE TANKS, UNKNOWN
Potential COC: Under Investigation Benzene Tetrachloroethylene (PCE Trichloroethylene (TCE
Confirmed COC: 30003-NO 30022-NO 30027-NO Under Investigation
Potential Description: OTH, UE
Alias Name: 8340032909
Alias Type: APN
Alias Name: 301244
Alias Type: Project Code (Site Code)
Alias Name: 60002119
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Triage Meeting
Completed Date: 07/13/2015
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LUST:
Lead Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603705058
Global Id: T0603705058
Latitude: 34.0580327
Longitude: -117.7609027
Status: Open - Site Assessment
Status Date: 06/05/1986
Case Worker: Not reported
RB Case Number: R-11632
Local Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
File Location: DTSC
Local Case Number: 19490221
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0603705058
Contact Type: Regional Board Caseworker
Contact Name: HARLEN JECHE
Organization Name: DEPARTMENT OF TOXIC SUBSTANCES CONTROL

POMONA CORPORATE YARD (Continued) **S101297800**

Address: 1011 N. GRANDVIEW AVE
City: GLENDALE
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0603705058
Action Type: Other
Date: 06/05/1986
Action: Leak Reported

LUST:
Global Id: T0603705058
Status: Open - Case Begin Date
Status Date: 06/05/1986

Global Id: T0603705058
Status: Open - Site Assessment
Status Date: 06/05/1986

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: R-11632
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: T0603705058
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: Not reported
Enforcement Type: Not reported
Date Leak Discovered: Not reported
Date Leak First Reported: 6/5/1986
Date Leak Record Entered: 12/31/1986
Date Confirmation Began: 6/5/1986
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 8/24/1987
Date the Case was Closed: Not reported
How Leak Discovered: Not reported
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: REHM, WILBUR
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 3406.0191397485600230752850366
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported

POMONA CORPORATE YARD (Continued) **S101297800**

Pollution Characterization Began: Not reported
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: CITY OF POMONA WATER DISTRICT
RP Address: 148 NORTH HUNTINGTON DRIVE, POMONA, CA 91766
Program: LUST
Lat/Long: 34.0580327 / -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: OLD CASE #000315

VCP:
Facility ID: 60002119
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 0.5
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Narine Aghakiant
Supervisor: Allan Plaza
Division Branch: Cleanup Chatsworth
Site Code: 301244
Assembly: 61, 52
Senate: 20
Special Programs Code: Voluntary Cleanup Program
Status: Inactive - Action Required
Status Date: 11/06/2014
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 34.05954 / -117.7608
APN: 8340032909
Past Use: FUEL TERMINALS, MACHINE SHOP, UNDERGROUND STORAGE TANKS, UNKNOWN
Potential COC: 31001, 30003, 30022, 30027
Confirmed COC: 30003-NO,30022-NO,30027-NO,31001
Potential Description: OTH, UE
Alias Name: 8340032909
Alias Type: APN
Alias Name: 301244
Alias Type: Project Code (Site Code)
Alias Name: 60002119

POMONA CORPORATE YARD (Continued) **S101297800**

Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Triage Meeting
Completed Date: 07/13/2015
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CORTESE:
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0603705058
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: OPEN - SITE ASSESSMENT
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HIST CORTESE:
edr_fname: CITY OF POMONA WATER DIST
edr_fadd1: 148 HUNTINGTON
City,State,Zip: POMONA, CA 91766
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: R-11632

CERS TANKS:
Site ID: 228811
CERS ID: T0603705058
Site Name: CITY OF POMONA WATER DISTRICT
CERS Description: Leaking Underground Storage Tank Cleanup Site

POMONA CORPORATE YARD (Continued) **S101297800**

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: HARLEN JECHE - DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Entity Title: Not reported
Affiliation Address: 1011 N. GRANDVIEW AVE
Affiliation City: GLENDALE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

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20 **LINCOLN ELEMENTARY** **ENVIROSTOR** **S118756596**
ENE **1293 N. GAREY AVENUE** **SCH** **N/A**
1/2-1 **POMONA, CA 91767** **CERS**
0.798 mi.
4212 ft.

Relative: Higher

Actual: 913 ft.

ENVIROSTOR:
Name: LINCOLN ELEMENTARY
Address: 1293 N. GAREY AVENUE
City,State,Zip: POMONA, CA 91767
Facility ID: 19820120
Status: No Action Required
Status Date: 07/28/2004
Site Code: 304407
Site Type: School Investigation
Site Type Detailed: School
Acres: 0.3
NPL: NO
Regulatory Agencies: DTSC
Lead Agency: DTSC
Program Manager: Not reported
Supervisor: Yolanda Garza
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 52
Senate: 20
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 34.07066
Longitude: -117.7526
APN: 8339027909
Past Use: * EDUCATIONAL SERVICES
Potential COC: Lead
Confirmed COC: NONE SPECIFIED
Potential Description: NMA
Alias Name: POMONA USD-LINCOLN ELEM SCHOOL EXPANSION
Alias Type: Alternate Name
Alias Name: 8339027909
Alias Type: APN
Alias Name: 304407
Alias Type: Project Code (Site Code)
Alias Name: 19820120
Alias Type: Envirostor ID Number

LINCOLN ELEMENTARY (Continued) **S118756596**

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	08/23/2004
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	09/02/2003
Comments:	Addendum required for lead based paint

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1 Addendum
Completed Date:	07/28/2004
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	04/24/2003
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:	19820120
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	0.3
National Priorities List:	NO
Cleanup Oversight Agencies:	DTSC
Lead Agency:	DTSC
Lead Agency Description:	* DTSC
Project Manager:	Not reported
Supervisor:	Yolanda Garza
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304407
Assembly:	52
Senate:	20
Special Program Status:	Not reported
Status:	No Action Required
Status Date:	07/28/2004
Restricted Use:	NO

LINCOLN ELEMENTARY (Continued) **S118756596**

Funding:	School District
Latitude:	34.07066
Longitude:	-117.7526
APN:	8339027909
Past Use:	* EDUCATIONAL SERVICES
Potential COC:	Lead
Confirmed COC:	NONE SPECIFIED
Potential Description:	NMA
Alias Name:	POMONA USD-LINCOLN ELEM SCHOOL EXPANSION
Alias Type:	Alternate Name
Alias Name:	8339027909
Alias Type:	APN
Alias Name:	304407
Alias Type:	Project Code (Site Code)
Alias Name:	19820120
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:	08/23/2004
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	09/02/2003
Comments:	Addendum required for lead based paint
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1 Addendum
Completed Date:	07/28/2004
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	04/24/2003
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

CERS TANKS:

Site ID:	371275
CERS ID:	19820120
Site Name:	LINCOLN ELEMENTARY
CERS Description:	School Investigation

LINCOLN ELEMENTARY (Continued) **S118756596**

Affiliation:
- Affiliation Type Desc: Supervisor
- Entity Name: YOLANDA GARZA
- Entity Title: Not reported
- Affiliation Address: Not reported
- Affiliation City: Not reported
- Affiliation State: Not reported
- Affiliation Country: Not reported
- Affiliation Zip: Not reported
- Affiliation Phone: Not reported

21
SE
1/2-1
0.831 mi.
4389 ft.

AMCAL MULTI-HOUSING INC.
424-446 WEST COMMERCIAL STREET
POMONA, CA 91768

ENVIROSTOR **S107027321**
N/A

Relative:
Higher

Actual:
863 ft.

ENVIROSTOR:
- Name: AMCAL MULTI-HOUSING INC.
- Address: 424-446 WEST COMMERCIAL STREET
- City,State,Zip: POMONA, CA 91768
- Facility ID: 19950004
- Status: Refer: 1248 Local Agency
- Status Date: 06/20/2005
- Site Code: Not reported
- Site Type: Evaluation
- Site Type Detailed: Evaluation
- Acres: Not reported
- NPL: NO
- Regulatory Agencies: NONE SPECIFIED
- Lead Agency: NONE SPECIFIED
- Program Manager: Not reported
- Supervisor: Referred - Not Assigned
- Division Branch: Cleanup Cypress
- Assembly: 61
- Senate: Not reported
- Special Program: Not reported
- Restricted Use: NO
- Site Mgmt Req: NONE SPECIFIED
- Funding: Not Applicable
- Latitude: 34.05951
- Longitude: -117.7551
- APN: NONE SPECIFIED
- Past Use: NONE SPECIFIED
- Potential COC: NONE SPECIFIED
- Confirmed COC: NONE SPECIFIED
- Potential Description: NONE SPECIFIED
- Alias Name: 19950004
- Alias Type: Envirostor ID Number

Completed Info:
- Completed Area Name: Not reported
- Completed Sub Area Name: Not reported
- Completed Document Type: Not reported
- Completed Date: Not reported
- Comments: Not reported

AMCAL MULTI-HOUSING INC. (Continued) **S107027321**

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

22
SSE
1/2-1
0.973 mi.
5138 ft.

MISSION-WHITE PROPERTY **ENVIROSTOR** **S105628656**
1020 W. MISSION BOULEVARD/701-745 S. WHITE AVE. **SCH** **N/A**
POMONA, CA 91766

Relative:
Lower

Actual:
834 ft.

ENVIROSTOR:

Name:	MISSION-WHITE PROPERTY
Address:	1020 W. MISSION BOULEVARD/701-745 S. WHITE AVE.
City,State,Zip:	POMONA, CA 91766
Facility ID:	19990030
Status:	Certified
Status Date:	05/27/2005
Site Code:	304205
Site Type:	School Cleanup
Site Type Detailed:	School
Acres:	7.12
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Kamili Siglowide
Supervisor:	Mark Malinowski
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	52
Senate:	20
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.05294
Longitude:	-117.7594
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	Arsenic DDD DDE DDT Lead Dieldrin
Confirmed COC:	Dieldrin 30001-NO 30006-NO 30007-NO 30008-NO 30013-NO
Potential Description:	SOIL
Alias Name:	BLACKMAN MORTUARY SITE
Alias Type:	Alternate Name
Alias Name:	MISSION-WHITE PROPERTY
Alias Type:	Alternate Name
Alias Name:	POMONA USD-MISSION-WHITE PROPERTY
Alias Type:	Alternate Name
Alias Name:	110033610723
Alias Type:	EPA (FRS #)
Alias Name:	304205
Alias Type:	Project Code (Site Code)
Alias Name:	19990030
Alias Type:	Envirostor ID Number

MISSION-WHITE PROPERTY (Continued) **S105628656**

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	03/23/2005
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	09/25/2003
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	05/27/2005
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	02/20/2004
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	09/02/2004
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	09/27/2002
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	10/31/2000
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Public Participation
Completed Date:	07/30/2004
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	06/13/2005
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

MISSION-WHITE PROPERTY (Continued) **S105628656**

Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 10/16/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 10/08/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 12/05/2002
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: 19990030
Site Type: School Cleanup
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 7.12
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Kamili Siglowide
Supervisor: Mark Malinowski
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 304205
Assembly: 52
Senate: 20
Special Program Status: Not reported
Status: Certified
Status Date: 05/27/2005
Restricted Use: NO
Funding: School District
Latitude: 34.05294
Longitude: -117.7594
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: Arsenic, DDD, DDE, DDT, Lead, Dieldrin
Confirmed COC: Dieldrin, 30001-NO, 30006-NO, 30007-NO, 30008-NO, 30013-NO
Potential Description: SOIL
Alias Name: BLACKMAN MORTUARY SITE
Alias Type: Alternate Name

MISSION-WHITE PROPERTY (Continued) **S105628656**

Alias Name: MISSION-WHITE PROPERTY
Alias Type: Alternate Name
Alias Name: POMONA USD-MISSION-WHITE PROPERTY
Alias Type: Alternate Name
Alias Name: 110033610723
Alias Type: EPA (FRS #)
Alias Name: 304205
Alias Type: Project Code (Site Code)
Alias Name: 19990030
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 03/23/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 09/25/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 05/27/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 02/20/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 09/02/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 09/27/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 10/31/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Public Participation
Completed Date: 07/30/2004

MISSION-WHITE PROPERTY (Continued) **S105628656**

Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	06/13/2005
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	10/16/2000
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	10/08/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	12/05/2002
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Count: 2 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
POMONA	S106447487	CAL SOL	123 HAMILTON ST. N.	91768	LUST
POMONA	S105960456	POMONA DEFENSE SUPPLY PROCUREMENT	U.S. NAVY-GENERAL DYNAMICS, 16	91766	CA BOND EXP. PLAN

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: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 07/15/2019
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: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/15/2019
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: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 07/29/2019
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: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 07/29/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

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: 02/22/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 41

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/10/2019
Next Scheduled EDR Contact: 08/26/2019
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: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/29/2019
Next Scheduled EDR Contact: 09/09/2019
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: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/29/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

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: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
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: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
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: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 21

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
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: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

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

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: 10/10/2018
Date Data Arrived at EDR: 03/08/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 10/16/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 09/24/2018
Date Data Arrived at EDR: 03/12/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 50
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/13/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 10/12/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/17/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

CPS-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: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
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: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Semi-Annually

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 03/08/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 54

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/17/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 11/07/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 11/01/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

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: 10/12/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 09/24/2018
Date Data Arrived at EDR: 03/12/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 50

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/03/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/20/2019
Next Scheduled EDR Contact: 10/07/2019
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: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 34
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/17/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 24
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/30/2019
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: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 48

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 03/26/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 34

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/12/2019
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: 02/24/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 50

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
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: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
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: 12/31/2017
Date Data Arrived at EDR: 06/12/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 55

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 07/22/2019
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

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

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: 02/24/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 50

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 02/21/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 04/15/2019
Number of Days to Update: 52

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/19/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

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: 12/04/2018
Date Data Arrived at EDR: 12/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
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

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing
Aboveground storage tank sites

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/11/2018
Number of Days to Update: 29

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

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

CERS TANKS: California Environmental Reporting System (CERS) Tanks
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

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: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 32

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
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: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Semi-Annually

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: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 27

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 49

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

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: 10/24/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 40

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 06/24/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Semi-Annually

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: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
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: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

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: 03/07/2019
Date Data Arrived at EDR: 04/03/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 50

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
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: 04/12/2019
Next Scheduled EDR Contact: 07/22/2019
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: 04/12/2019
Next Scheduled EDR Contact: 07/22/2019
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: 05/13/2019
Next Scheduled EDR Contact: 08/26/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/07/2019
Number of Days to Update: 42
Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
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: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
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: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73
Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/10/2019
Next Scheduled EDR Contact: 08/19/2019
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: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198
Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/18/2019
Next Scheduled EDR Contact: 09/30/2019
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: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/02/2019
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: 04/24/2019
Next Scheduled EDR Contact: 08/05/2019
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: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 09/16/2019
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: 04/25/2019
Date Data Arrived at EDR: 05/02/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
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: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 08/19/2019
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: 03/20/2019
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 34

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/10/2019
Next Scheduled EDR Contact: 07/22/2019
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: 04/08/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 06/07/2019
Next Scheduled EDR Contact: 09/16/2019
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: 06/07/2019
Next Scheduled EDR Contact: 09/16/2019
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: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 04/02/2019
Date Data Arrived at EDR: 04/02/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 42
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/02/2019
Next Scheduled EDR Contact: 07/15/2019
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: 12/03/2018
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 51

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

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: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 30

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/22/2019
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: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/02/2019
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: 04/11/2019
Next Scheduled EDR Contact: 07/22/2019
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: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
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: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 07/15/2019
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: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
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: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
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: 11/27/2018
Date Data Arrived at EDR: 02/27/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 33

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/29/2019
Next Scheduled EDR Contact: 09/09/2019
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: 05/31/2019
Next Scheduled EDR Contact: 09/09/2019
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: 05/31/2019
Next Scheduled EDR Contact: 09/09/2019
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: 03/27/2019
Date Data Arrived at EDR: 03/28/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 34

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/19/2019
Next Scheduled EDR Contact: 09/23/2019
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: 02/15/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 03/15/2019
Number of Days to Update: 10

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 06/05/2019
Next Scheduled EDR Contact: 09/16/2019
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: 04/07/2019
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 04/09/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 74

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
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: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
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: 02/19/2019
Date Data Arrived at EDR: 02/21/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 39
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 04/18/2019
Date Data Arrived at EDR: 04/19/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 11
Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 01/23/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 34
Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 03/19/2019
Date Data Arrived at EDR: 03/22/2019
Date Made Active in Reports: 04/09/2019
Number of Days to Update: 18

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 05/23/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

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: 03/01/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 35

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Annually

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 47

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/24/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 11/02/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 41

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 01/10/2019
Date Data Arrived at EDR: 01/23/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 41

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
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: 02/15/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 14

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
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: 12/31/2017
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 50

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/20/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 13

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
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: 02/19/2019
Date Data Arrived at EDR: 02/20/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 13

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
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: 04/08/2019
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 51

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/09/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 23
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/05/2019
Number of Days to Update: 31
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
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: 03/18/2019
Date Data Arrived at EDR: 03/19/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 41
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
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: 04/27/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
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 boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 09/13/2018
Number of Days to Update: 64
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 04/12/2019
Next Scheduled EDR Contact: 07/22/2019
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: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing
In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 06/19/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto 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 Historical 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:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 04/10/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 06/20/2019
Number of Days to Update: 70

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/08/2019
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 58

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 04/08/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/02/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 27

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 06/24/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 02/14/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 17

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 04/29/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 05/01/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 29

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 04/29/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: 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: 04/10/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 19

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 03/29/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/20/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 01/18/2019
Date Data Arrived at EDR: 01/23/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 41

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 29

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: 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: 05/16/2019
Date Data Arrived at EDR: 05/17/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 13

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/12/2019
Number of Days to Update: 28

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/17/2019
Date Data Arrived at EDR: 01/18/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 46

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

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: N/A
Telephone: N/A
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 12/19/2018
Date Data Arrived at EDR: 01/10/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 56

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/15/2019
Date Data Arrived at EDR: 04/16/2019
Date Made Active in Reports: 06/21/2019
Number of Days to Update: 66

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/16/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 54

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 04/30/2012
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 42

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 04/17/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory

A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 54

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory

A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 54

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 04/16/2019
Date Made Active in Reports: 06/21/2019
Number of Days to Update: 66

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/16/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Semi-Annually

UST LONG BEACH: 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: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Annually

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/05/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 28

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 13

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 03/29/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/19/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 50

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/21/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 34

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 05/23/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 02/05/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 26

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 04/01/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: 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: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 02/21/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 14

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/20/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 9

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 05/13/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/09/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 21

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/09/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 21

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 01/02/2019
Date Data Arrived at EDR: 02/05/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 31

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/07/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/12/2019
Number of Days to Update: 42

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 01/14/2019
Date Data Arrived at EDR: 01/18/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 46

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/12/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 18

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/12/2019
Date Made Active in Reports: 06/20/2019
Number of Days to Update: 69

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/05/2019
Date Data Arrived at EDR: 04/02/2019
Date Made Active in Reports: 06/18/2019
Number of Days to Update: 77

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/02/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/06/2019
Date Data Arrived at EDR: 04/02/2019
Date Made Active in Reports: 06/20/2019
Number of Days to Update: 79

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/02/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List

Cupa facility list

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 48

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: 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: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 33

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: 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: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56
Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing
A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 03/06/2019
Date Data Arrived at EDR: 03/06/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 54
Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

SAN DIEGO CO. SAM: 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: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: 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: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/05/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/17/2019
Next Scheduled EDR Contact: 09/30/2019
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/13/2019
Date Data Arrived at EDR: 02/15/2019
Date Made Active in Reports: 03/14/2019
Number of Days to Update: 27

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/10/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: 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: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/13/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 15

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

HIST LUST SANTA CLARA: 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

LUST SANTA CLARA: 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: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Annually

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 01/30/2019
Date Data Arrived at EDR: 02/01/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 34
Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: 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: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51
Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 53
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 27
Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 03/18/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 06/19/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 19

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 06/19/2019
Next Scheduled EDR Contact: 10/07/2019
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 33

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 28

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 01/18/2019
Date Data Arrived at EDR: 01/23/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 42

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 12/27/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 19

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: 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: 12/26/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 02/28/2019
Number of Days to Update: 35

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

LF VENTURA: 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: 03/29/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Annually

LUST VENTURA: 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: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Quarterly

MED WASTE VENTURA: 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: 03/26/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 35
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/26/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 21
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 06/20/2019
Number of Days to Update: 76
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/29/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 02/08/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 22
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
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: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/04/2019
Number of Days to Update: 20
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/10/2019
Next Scheduled EDR Contact: 07/22/2019
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: 01/01/2019
Date Data Arrived at EDR: 05/01/2019
Date Made Active in Reports: 06/21/2019
Number of Days to Update: 51

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/01/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/27/2018
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/17/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/10/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
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

APNS 8358-009-006, -009, & -010
875 WEST ORANGE GROVE AVENUE
POMONA, CA 91768

TARGET PROPERTY COORDINATES

Latitude (North):	34.06791 - 34° 4' 4.48''
Longitude (West):	117.766846 - 117° 46' 0.65''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	429237.4
UTM Y (Meters):	3769756.2
Elevation:	860 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5619080 SAN DIMAS, CA
Version Date:	2012
East Map:	5619074 ONTARIO, 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 principle 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).

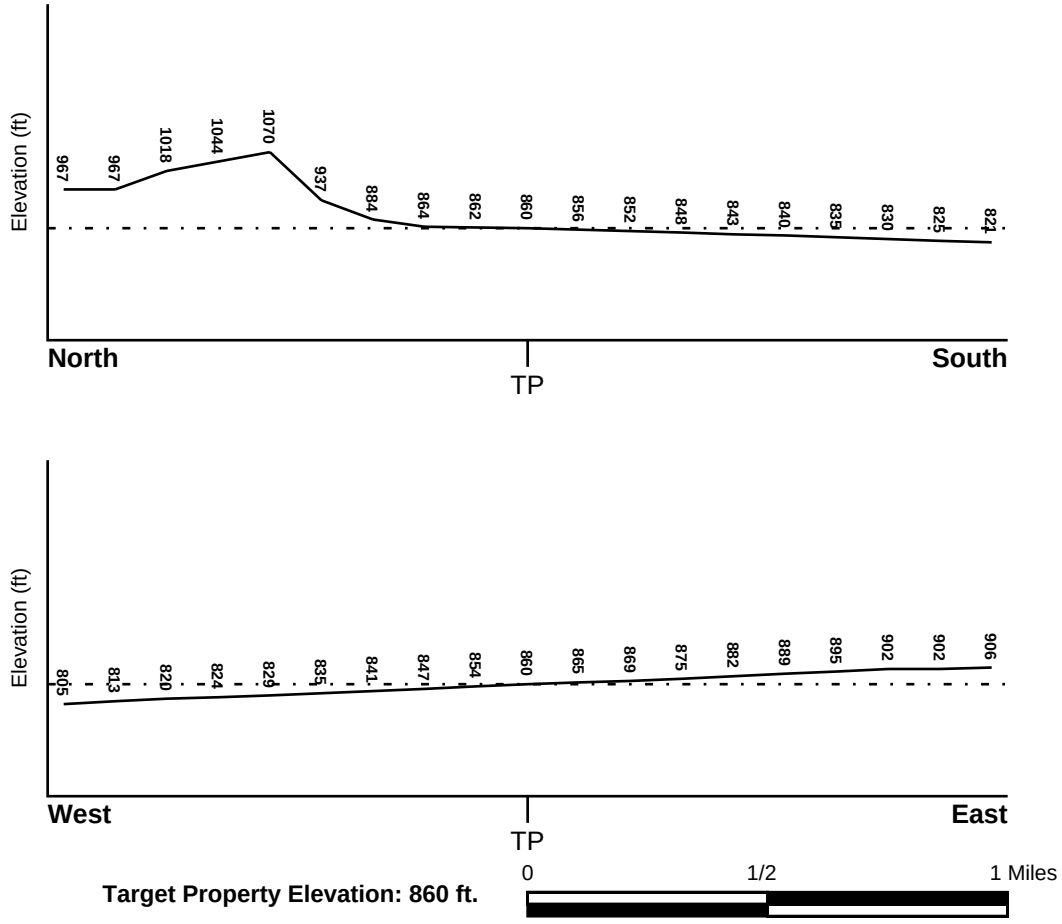
TOPOGRAPHIC INFORMATION

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 SW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 860 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06037C1725F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06071C8605H	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
SAN DIMAS	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: URBAN LAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max: > 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: gravelly - loamy sand
coarse sandy loam
stony - loamy sand
fine sand
silt loam
fine sandy loam
sandy loam
gravelly - sandy loam
loamy fine sand
clay loam

Surficial Soil Types: gravelly - loamy sand
coarse sandy loam
stony - loamy sand
fine sand
silt loam
fine sandy loam
sandy loam
gravelly - sandy loam
loamy fine sand
clay loam

Shallow Soil Types: fine sandy loam
gravelly - loam

Deeper Soil Types: gravelly - fine sandy loam
sand
silty clay loam
gravelly - sandy loam
loam

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

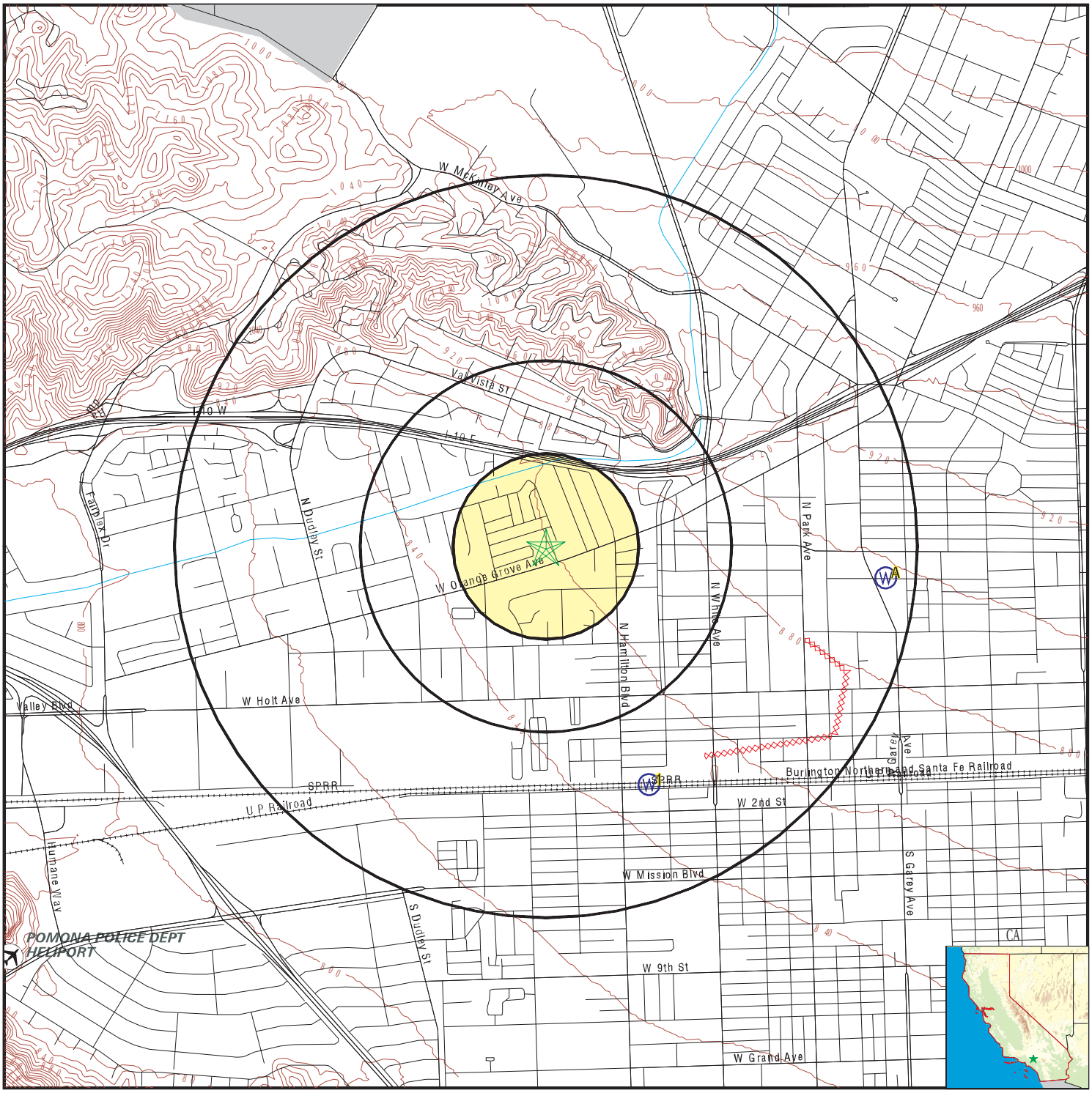
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CADWR8000006555	1/2 - 1 Mile SSE
A2	1174	1/2 - 1 Mile East
A3	1175	1/2 - 1 Mile East
A4	14328	1/2 - 1 Mile East
A5	1173	1/2 - 1 Mile East
A6	1171	1/2 - 1 Mile East
A7	1172	1/2 - 1 Mile East

PHYSICAL SETTING SOURCE MAP - 5697522.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	APNs 8358-009-006, -009, & -010	CLIENT:	LOR Geotechnical Group, Inc.
ADDRESS:	875 West Orange Grove Avenue Pomona CA 91768	CONTACT:	Mathew Hunt
LAT/LONG:	34.06791 / 117.766846	INQUIRY #:	5697522.2s
		DATE:	June 25, 2019 1:30 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
SSE
1/2 - 1 Mile
Lower

CA WELLS **CADWR8000006555**

State Well #:	01S09W27H001S	Station ID:	49048
Well Name:	Well 28	Well Use:	Residential
Well Type:	Single Well	Well Depth:	370
Basin Name:	San Gabriel Valley	Well Completion Rpt #:	50797

A2
East
1/2 - 1 Mile
Higher

CA WELLS **1174**

Seq:	1174	Prim sta c:	01S/08W-17P06 S
Frds no:	1910126058	County:	19
District:	15	User id:	MET
System no:	1910126	Water type:	G
Source nam:	WELL 02 - ABANDONED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340400.0	Longitude:	1174500.0
Precision:	8	Status:	AB
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1910126	System nam:	POMONA-CITY, WATER DEPT.
Hqname:	Not Reported	Address:	P O BOX 660
City:	POMONA	State:	CA
Zip:	91769	Zip ext:	Not Reported
Pop serv:	131723	Connection:	27808
Area serve:	POMONA		

A3
East
1/2 - 1 Mile
Higher

CA WELLS **1175**

Seq:	1175	Prim sta c:	01S/08W-18J02 S
Frds no:	1910126003	County:	19
District:	15	User id:	MET
System no:	1910126	Water type:	G
Source nam:	WELL 03	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340400.0	Longitude:	1174500.0
Precision:	8	Status:	AU
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1910126	System nam:	POMONA-CITY, WATER DEPT.
Hqname:	Not Reported	Address:	P O BOX 660
City:	POMONA	State:	CA
Zip:	91769	Zip ext:	Not Reported
Pop serv:	131723	Connection:	27808
Area serve:	POMONA		

Sample date:	01-DEC-14	Finding:	3.2
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-DEC-14	Finding:	75.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-DEC-14	Finding:	1.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	13-NOV-14	Finding:	1.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	13-NOV-14	Finding:	75.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-NOV-14	Finding:	4.2
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-OCT-14	Finding:	1.2
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	23-OCT-14	Finding:	53.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-OCT-14	Finding:	1.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-OCT-14	Finding:	3.6
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-OCT-14	Finding:	7.8
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	02-SEP-14	Finding:	4.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	02-SEP-14	Finding:	3.3
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-SEP-14	Finding:	1.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-SEP-14	Finding:	78.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-AUG-14	Finding:	80.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	04-AUG-14	Finding:	1.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-AUG-14	Finding:	3.7
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-JUL-14	Finding:	77.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-JUL-14	Finding:	4.2
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-JUL-14	Finding:	1.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JUN-14	Finding:	77.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUN-14	Finding:	1.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JUN-14	Finding:	3.5
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-MAY-14	Finding:	6.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-MAY-14	Finding:	0.82
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-MAY-14	Finding:	2.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-MAY-14	Finding:	82.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-APR-14	Finding:	4.5
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-APR-14	Finding:	1.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-APR-14	Finding:	78.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	14-APR-14	Finding:	8.8
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	31-MAR-14	Finding:	0.66
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	31-MAR-14	Finding:	1.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	31-MAR-14	Finding:	58.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	31-MAR-14	Finding:	7.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	31-MAR-14	Finding:	2.5
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-FEB-14	Finding:	76.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-FEB-14	Finding:	3.3
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-FEB-14	Finding:	1.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-JAN-14	Finding:	0.52
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-JAN-14	Finding:	3.7
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-JAN-14	Finding:	1.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-JAN-14	Finding:	7.3
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	28-JAN-14	Finding:	59.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-DEC-13	Finding:	3.4
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-DEC-13	Finding:	1.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	17-DEC-13	Finding:	76.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-SEP-13	Finding:	4.5
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	16-SEP-13	Finding:	2.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-SEP-13	Finding:	9.7
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	09-SEP-13	Finding:	76.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-AUG-13	Finding:	4.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	08-AUG-13	Finding:	69.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-AUG-13	Finding:	4.2
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-AUG-13	Finding:	1.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JUL-13	Finding:	4.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JUL-13	Finding:	77.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUL-13	Finding:	1.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-JUN-13	Finding:	79.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-JUN-13	Finding:	9.8
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	03-JUN-13	Finding:	3.6
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	03-JUN-13	Finding:	1.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	15-MAY-13	Finding:	80.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-MAY-13	Finding:	1.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	15-MAY-13	Finding:	4.
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	16-JAN-13	Finding:	83.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-JAN-13	Finding:	2.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	16-JAN-13	Finding:	4.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-NOV-12	Finding:	2.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-NOV-12	Finding:	7.9
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-NOV-12	Finding:	0.51
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-NOV-12	Finding:	85.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-OCT-12	Finding:	19000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-OCT-12	Finding:	0.81
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	24-OCT-12	Finding:	0.76
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	24-OCT-12	Finding:	85.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-OCT-12	Finding:	0.95
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported

Dlr:	0.		
Sample date:	24-OCT-12	Finding:	380.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	24-OCT-12	Finding:	2.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-OCT-12	Finding:	7.1
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-OCT-12	Finding:	3.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	24-OCT-12	Finding:	0.15
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	24-OCT-12	Finding:	80.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	24-OCT-12	Finding:	25.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	24-OCT-12	Finding:	1.8
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	24-OCT-12	Finding:	59.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	24-OCT-12	Finding:	7.5
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	24-OCT-12	Finding:	63.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	24-OCT-12	Finding:	190.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	24-OCT-12	Finding:	140.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	24-OCT-12	Finding:	120.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	24-OCT-12	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		

Sample date:	24-OCT-12	Finding:	640.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		

Sample date:	24-OCT-12	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		

A4
East
1/2 - 1 Mile
Higher

CA WELLS 14328

Seq:	14328	Prim sta c:	1910126-054
Frds no:	1910126054	County:	19
District:	15	User id:	MET
System no:	1910126	Water type:	G
Source nam:	WELL 01B	Station ty:	WELL/AMBNT
Latitude:	340400.0	Longitude:	1174500.0
Precision:	3	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1910126	System nam:	POMONA-CITY, WATER DEPT.
Hqname:	Not Reported	Address:	P O BOX 660
City:	POMONA	State:	CA
Zip:	91769	Zip ext:	Not Reported
Pop serv:	131723	Connection:	27808
Area serve:	POMONA		

A5
East
1/2 - 1 Mile
Higher

CA WELLS 1173

Seq:	1173	Prim sta c:	01S/08W-17P05 S
Frds no:	1910126059	County:	19
District:	15	User id:	MET
System no:	1910126	Water type:	G
Source nam:	WELL 01 - ABANDONED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340400.0	Longitude:	1174500.0
Precision:	8	Status:	AB
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1910126	System nam:	POMONA-CITY, WATER DEPT.
Hqname:	Not Reported	Address:	P O BOX 660
City:	POMONA	State:	CA
Zip:	91769	Zip ext:	Not Reported
Pop serv:	131723	Connection:	27808
Area serve:	POMONA		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A6
East
1/2 - 1 Mile
Higher

CA WELLS 1171

Seq:	1171	Prim sta c:	01S/08W-17P02 S
Frds no:	1910126056	County:	19
District:	15	User id:	MET
System no:	1910126	Water type:	G
Source nam:	WELL 04 - ABANDONED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340400.0	Longitude:	1174500.0
Precision:	8	Status:	AB
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1910126	System nam:	POMONA-CITY, WATER DEPT.
Hqname:	Not Reported	Address:	P O BOX 660
City:	POMONA	State:	CA
Zip:	91769	Zip ext:	Not Reported
Pop serv:	131723	Connection:	27808
Area serve:	POMONA		

A7
East
1/2 - 1 Mile
Higher

CA WELLS 1172

Seq:	1172	Prim sta c:	01S/08W-17P04 S
Frds no:	1910126001	County:	19
District:	15	User id:	MET
System no:	1910126	Water type:	G
Source nam:	WELL 01 - MONITORING WELL	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340400.0	Longitude:	1174500.0
Precision:	8	Status:	MW
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1910126	System nam:	POMONA-CITY, WATER DEPT.
Hqname:	Not Reported	Address:	P O BOX 660
City:	POMONA	State:	CA
Zip:	91769	Zip ext:	Not Reported
Pop serv:	131723	Connection:	27808
Area serve:	POMONA		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
91768	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 and Wildlife
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.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
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.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
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.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

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.

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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CITY OF POMONA PUBLIC WORKS
875 W ORANGE GROVE AVE
POMONA, CA 91768

Inquiry Number:
July 7, 2019

EDR Site Report™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

The EDR-Site Report™ is a comprehensive presentation of government filings on a facility identified in a search of federal, state and local environmental databases. The report is divided into three sections:

Section 1: Facility Summary . . . . . Page 3

Summary of facility filings including a review of the following areas: waste management, waste disposal, multi-media issues, and Superfund liability.

Section 2: Facility Detail Reports . . . . . Page 4

All available detailed information from databases where sites are identified.

Section 3: Databases and Update Information. . . . . Page 6

Name, source, update dates, contact phone number and description of each of the databases for this report.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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SECTION 1: FACILITY SUMMARY

FACILITY AREA	FACILITY 1 **CITY OF POMONA PUBLIC WORKS** 875 W ORANGE GROVE AVE POMONA, CA 91768 EDR ID #1024621282 EPA #110070409669
WASTE MANAGEMENT Facility generates hazardous waste (RCRA)	NO
Facility treats, stores, or disposes of hazardous waste on-site (RCRA/TSDF)	NO
Facility has received Notices of Violations (RCRA/VIOL)	NO
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	NO
Facility uses radioactive materials (MLTS)	NO
Facility is a FUSRAP Site	NO
Facility is a UXO Site	NO
Facility is a FUELS Site	NO
Facility is an DockHWC/ECHO Site	**YES - p4**
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	NO
Facility has reported emergency releases to the soil (ERNS)	NO
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
WASTE DISPOSAL Facility is a Superfund Site (NPL)	NO
Facility is a Record of Decision Site (ROD)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (SEMS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
MULTIMEDIA Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	**YES - p5**
Facility is listed in other database records (OTHER)	NO
POTENTIAL SUPERFUND LIABILITY Facility has a list of potentially responsible parties PRP	NO
Facility is named in a CERCLA-related Consent Decree	NO
TOTAL (YES)	2

SECTION 2: FACILITY DETAIL REPORTS

WASTE MANAGEMENT

Facility is an Hazardous Waste/Enforcement and Compliance History Site (DocketHWC/ECHO)

DATABASE: Hazardous Waste/Enforcement and Compliance History Sites (DocketHWC/ECHO)

CITY OF POMONA PUBLIC WORKS
875 W ORANGE GROVE AVE
POMONA, CA 91768
EDR ID #1024621282

ECHO:

Envid:	1024621282
Registry ID:	110070409669
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110070409669

MULTIMEDIA

Facility is listed in EPA's index system

DATABASE: Facility Index System (FINDS)

CITY OF POMONA PUBLIC WORKS
875 W ORANGE GROVE AVE
POMONA, CA 91768
EDR ID #1024621282

This site is listed in the Federal FINDS database. The FINDS database may contain references to records from government databases included elsewhere in the report.
Please note: the FINDS database may also contain references to out of date records formerly associated with the site.

Registry ID:	110070409669
Facility Name:	CITY OF POMONA PUBLIC WORKS
Facility Address:	875 W ORANGE GROVE AVE POMONA, CA 91768
Facility URL:	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110070409669
FIPS:	06037
Fed Facility:	Not reported
Tribal Land:	Not reported
Tribal Name:	Not reported
Congressional District:	Not reported
Hydrologic Unit Code:	Not reported
EPA Region:	09
Site Type:	STATIONARY
Date Created:	31-DEC-2018 16:26:54
Date Updated:	Not reported
U.S-Mexico Border:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Horizontal Collection:	Not reported
Horizontal Accuracy:	Not reported
Reference Point:	Not reported
Horizontal Datum:	NAD83
Coordinates Source:	Not reported
Information System Abbreviated Name:	Not reported

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.

Program System ID:	CAH111001351
Program Sys. Name:	RCRAINFO
Env. Interest Type:	TRANSPORTER
Env. Interest Start Dt.:	08-JUN-2011 00:00:00
Start Date Qualifier:	EARLIEST RCRAINFO DATE
Env. Interest End Dt.:	Not reported
End Date Qualifier:	Not reported
Data Source:	RCRAINFO
Active Status:	Y

Contact Name:	DAVID HAMILTON
Contact Type:	REGULATORY CONTACT
Contact Title:	Not reported
Contact Telephone:	909-620-2288
Contact Fax:	909-620-2030
Contact email:	Not reported
Contact Address:	Not reported Not reported

NAICS Code: 56299(ALL OTHER WASTE MANAGEMENT SERVICES)

SECTION 3: DATABASES AND UPDATE DATES

To maintain currency of the following federal, state and local databases, EDR contacts the appropriate government agency on a monthly or quarterly basis as required.

Elapsed ASTM days: Provides confirmation that this report meets or exceeds the 90-day updating requirement of the ASTM standard.

DATABASES FOUND IN THIS REPORT

FINDS: Facility Index System/Facility Registry System
Source: EPA
Telephone: Not reported
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: 02/15/2019
Database Release Frequency: Quarterly
Date of Last EDR Contact: 06/05/2019
Date of Next Scheduled Update: 09/16/2019

ECHO: Enforcement & Compliance History Information
Source: Environmental Protection Agency
Telephone: 202-564-2280
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 04/07/2019
Database Release Frequency: Quarterly
Date of Last EDR Contact: 04/09/2019
Date of Next Scheduled Update: 07/22/2019

VERIZON WIRELESS: HAMILTON
875 W. ORANGE GROVE AVENUE
POMONA, CA 91768

Inquiry Number:
July 7, 2019

EDR Site Report™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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The EDR-Site Report™ is a comprehensive presentation of government filings on a facility identified in a search of federal, state and local environmental databases. The report is divided into three sections:

Section 1: Facility Summary . . . . . Page 3

Summary of facility filings including a review of the following areas: waste management, waste disposal, multi-media issues, and Superfund liability.

Section 2: Facility Detail Reports . . . . . Page 4

All available detailed information from databases where sites are identified.

Section 3: Databases and Update Information. . . . . Page 5

Name, source, update dates, contact phone number and description of each of the databases for this report.

Thank you for your business.
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SECTION 1: FACILITY SUMMARY

FACILITY AREA	FACILITY 1 **VERIZON WIRELESS: HAMILTON** 875 W. ORANGE GROVE AVENUE POMONA, CA 91768 EDR ID #1023311072 EPA #110066038969
WASTE MANAGEMENT Facility generates hazardous waste (RCRA)	NO
Facility treats, stores, or disposes of hazardous waste on-site (RCRA/TSDF)	NO
Facility has received Notices of Violations (RCRA/VIOL)	NO
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	NO
Facility uses radioactive materials (MLTS)	NO
Facility is a FUSRAP Site	NO
Facility is a UXO Site	NO
Facility is a FUELS Site	NO
Facility is an DockHWC/ECHO Site	NO
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	NO
Facility has reported emergency releases to the soil (ERNS)	NO
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
WASTE DISPOSAL Facility is a Superfund Site (NPL)	NO
Facility is a Record of Decision Site (ROD)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (SEMS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
MULTIMEDIA Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	**YES - p4**
Facility is listed in other database records (OTHER)	NO
POTENTIAL SUPERFUND LIABILITY Facility has a list of potentially responsible parties PRP	NO
Facility is named in a CERCLA-related Consent Decree	NO
TOTAL (YES)	1

SECTION 2: FACILITY DETAIL REPORTS

MULTIMEDIA

Facility is listed in EPA's index system

DATABASE: Facility Index System (FINDS)

VERIZON WIRELESS: HAMILTON
875 W. ORANGE GROVE AVENUE
POMONA, CA 91768
EDR ID #1023311072

This site is listed in the Federal FINDS database. The FINDS database may contain references to records from government databases included elsewhere in the report.
Please note: the FINDS database may also contain references to out of date records formerly associated with the site.

Registry ID:	110066038969
Facility Name:	VERIZON WIRELESS: HAMILTON
Facility Address:	875 W. ORANGE GROVE AVENUE POMONA, CA 91768
Facility URL:	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110066038969
FIPS:	Not reported
Fed Facility:	Not reported
Tribal Land:	Not reported
Tribal Name:	Not reported
Congressional District:	38
Hydrologic Unit Code:	18070106
EPA Region:	09
Site Type:	STATIONARY
Date Created:	14-OCT-2015 09:36:29
Date Updated:	Not reported
U.S-Mexico Border:	Not reported
Latitude:	34.0679
Longitude:	-117.76695
Horizontal Collection:	ADDRESS MATCHING-HOUSE NUMBER
Horizontal Accuracy:	30
Reference Point:	CENTER OF A FACILITY OR STATION
Horizontal Datum:	NAD83
Coordinates Source:	Not reported
Information System Abbreviated Name:	Not reported

Environmental Interest/Information System
STATE MASTER

Program System ID:	168104
Program Sys. Name:	CA-ENVIROVIEW
Env. Interest Type:	STATE MASTER
Env. Interest Start Dt.:	Not reported
Start Date Qualifier:	Not reported
Env. Interest End Dt.:	Not reported
End Date Qualifier:	Not reported
Data Source:	CA-ENVIROVIEW
Active Status:	Not reported

Alternative Name:	VERIZON WIRELESS: HAMILTON

Supplemental Interest:	STATE MASTER
PGM Sys ID:	CERS
Supplemental PGM Sys ID:	10162621
Start Date:	10-JUL-0013 00:00:00
Start Date Qualifier:	ENVIRONMENTAL INTEREST START DATE
End Date:	Not reported
End Date Qualifier:	ENVIRONMENTAL INTEREST END DATE
Date Source:	CA-ENVIROVIEW
Last Reported:	Not reported
Date Created:	15-OCT-2015 07:20:15
Date Updated:	Not reported

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FINDS: Facility Index System/Facility Registry System
Source: EPA
Telephone: Not reported
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: 02/15/2019
Database Release Frequency: Quarterly
Date of Last EDR Contact: 06/05/2019
Date of Next Scheduled Update: 09/16/2019

CITY OF POMONA PUBLIC WORKS
875 W ORANGE GROVE AVE
POMONA, CA 91768

Inquiry Number:
July 7, 2019

EDR Site Report™

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All available detailed information from databases where sites are identified.

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Name, source, update dates, contact phone number and description of each of the databases for this report.

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SECTION 1: FACILITY SUMMARY

FACILITY AREA	FACILITY 1 **CITY OF POMONA PUBLIC WORKS** 875 W ORANGE GROVE AVE POMONA, CA 91768 EDR ID #S113020648
WASTE MANAGEMENT Facility generates hazardous waste (RCRA)	NO
Facility treats, stores, or disposes of hazardous waste on-site (RCRA/TSDF)	NO
Facility has received Notices of Violations (RCRA/VIOL)	NO
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	NO
Facility uses radioactive materials (MLTS)	NO
Facility is a FUSRAP Site	NO
Facility is a UXO Site	NO
Facility is a FUELS Site	NO
Facility is an DockHWC/ECHO Site	NO
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	NO
Facility has reported emergency releases to the soil (ERNS)	NO
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
WASTE DISPOSAL Facility is a Superfund Site (NPL)	NO
Facility is a Record of Decision Site (ROD)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (SEMS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
MULTIMEDIA Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	NO
Facility is listed in other database records (OTHER)	**YES - p4**
POTENTIAL SUPERFUND LIABILITY Facility has a list of potentially responsible parties PRP	NO
Facility is named in a CERCLA-related Consent Decree	NO
TOTAL (YES)	1

SECTION 2: FACILITY DETAIL REPORTS

MULTIMEDIA

Facility is listed in other database records

DATABASE: Other Database Records (OTHER)

CITY OF POMONA PUBLIC WORKS
875 W ORANGE GROVE AVE
POMONA, CA 91768
EDR ID #S113020648

HAZNET:

Name:	CITY OF POMONA PUBLIC WORKS
Address:	875 W ORANGE GROVE AVE
City,State,Zip:	POMONA, CA 91768
Year:	2017
GEPAID:	CAH111001351
Contact:	DAVID HAMILTON
Telephone:	9096202288
Mailing Name:	Not reported
Mailing Address:	PO BOX 660
Mailing City,St,Zip:	POMONA, CA 91769
Gen County:	Los Angeles
TSD EPA ID:	CAH111001400
TSD County:	Orange
Tons:	1.45
CA Waste Code:	612-Household waste
Method:	-
Facility County:	Los Angeles

Name:	CITY OF POMONA PUBLIC WORKS
Address:	875 W ORANGE GROVE AVE
City,State,Zip:	POMONA, CA 91768
Year:	2016
GEPAID:	CAH111001351
Contact:	DAVID HAMILTON
Telephone:	9096202288
Mailing Name:	Not reported
Mailing Address:	PO BOX 660
Mailing City,St,Zip:	POMONA, CA 91769
Gen County:	Los Angeles
TSD EPA ID:	CAH111001400
TSD County:	Orange
Tons:	1.2
CA Waste Code:	612-Household waste
Method:	H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles

Name:	CITY OF POMONA PUBLIC WORKS
Address:	875 W ORANGE GROVE AVE
City,State,Zip:	POMONA, CA 91768
Year:	2015
GEPAID:	CAH111001351
Contact:	DAVID HAMILTON
Telephone:	9096202288
Mailing Name:	Not reported
Mailing Address:	PO BOX 660
Mailing City,St,Zip:	POMONA, CA 91769
Gen County:	Los Angeles
TSD EPA ID:	CAH111001400
TSD County:	Orange
Tons:	2.17257
CA Waste Code:	612-Household waste
Method:	H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles

Name:	CITY OF POMONA PUBLIC WORKS
Address:	875 W ORANGE GROVE AVE
City,State,Zip:	POMONA, CA 91768
Year:	2014
GEPAID:	CAH111001351
Contact:	DAVID HAMILTON
Telephone:	9096202288
Mailing Name:	Not reported
Mailing Address:	PO BOX 660
Mailing City,St,Zip:	POMONA, CA 91769
Gen County:	Los Angeles
TSD EPA ID:	CAD099452708
TSD County:	Los Angeles

Tons: 0.89655
CA Waste Code: 612-Household waste
Method: H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Los Angeles

Name: CITY OF POMONA PUBLIC WORKS
Address: 875 W ORANGE GROVE AVE
City,State,Zip: POMONA, CA 91768
Year: 2013
GEPAID: CAH111001351
Contact: DAVID HAMILTON
Telephone: 9096202288
Mailing Name: Not reported
Mailing Address: PO BOX 660
Mailing City,St,Zip: POMONA, CA 91769
Gen County: Los Angeles
TSD EPA ID: CAD099452708
TSD County: Los Angeles
Tons: 1.216
CA Waste Code: 221-Waste oil and mixed oil
Method: H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Los Angeles

Name: CITY OF POMONA PUBLIC WORKS
Address: 875 W ORANGE GROVE AVE
City,State,Zip: POMONA, CA 91768
Year: 2012
GEPAID: CAH111001351
Contact: DAVID HAMILTON
Telephone: 9096202288
Mailing Name: Not reported
Mailing Address: PO BOX 660
Mailing City,St,Zip: POMONA, CA 91769
Gen County: Los Angeles
TSD EPA ID: CAD099452708
TSD County: Los Angeles
Tons: 1.0564
CA Waste Code: 221-Waste oil and mixed oil
Method: H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Los Angeles

Name: CITY OF POMONA PUBLIC WORKS
Address: 875 W ORANGE GROVE AVE
City,State,Zip: POMONA, CA 91768
Year: 2011
GEPAID: CAH111001351
Contact: DAVID HAMILTON
Telephone: 9096202288
Mailing Name: Not reported
Mailing Address: PO BOX 660
Mailing City,St,Zip: POMONA, CA 91769
Gen County: Los Angeles
TSD EPA ID: CAT080025711
TSD County: San Bernardino
Tons: 1.463
CA Waste Code: 221-Waste oil and mixed oil
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Los Angeles

Name: CITY OF POMONA PUBLIC WORKS
Address: 875 W ORANGE GROVE AVE
City,State,Zip: POMONA, CA 91768
Year: 2004
GEPAID: CAH111001351
Contact: DAVID HAMILTON
Telephone: 9096202288
Mailing Name: Not reported
Mailing Address: PO BOX 660
Mailing City,St,Zip: POMONA, CA 91769
Gen County: Los Angeles
TSD EPA ID: CAD982444481
TSD County: San Bernardino
Tons: 2.375
CA Waste Code: 612-Household waste
Method: -
Facility County: Los Angeles

Name: CITY OF POMONA PUBLIC WORKS
Address: 875 W ORANGE GROVE AVE
City,State,Zip: POMONA, CA 91768
Year: 2004

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

GEPAID:	CAH111001351
Contact:	DAVID HAMILTON
Telephone:	9096202288
Mailing Name:	Not reported
Mailing Address:	PO BOX 660
Mailing City,St,Zip:	POMONA, CA 91769
Gen County:	Los Angeles
TSD EPA ID:	CAD982444481
TSD County:	San Bernardino
Tons:	1.5
CA Waste Code:	612-Household waste
Method:	H01-Transfer Station
Facility County:	Los Angeles

Name:	CITY OF POMONA PUBLIC WORKS
Address:	875 W ORANGE GROVE AVE
City,State,Zip:	POMONA, CA 91768
Year:	2004
GEPAID:	CAH111001351
Contact:	DAVID HAMILTON
Telephone:	9096202288
Mailing Name:	Not reported
Mailing Address:	PO BOX 660
Mailing City,St,Zip:	POMONA, CA 91769
Gen County:	Los Angeles
TSD EPA ID:	CAD982444481
TSD County:	San Bernardino
Tons:	0.2
CA Waste Code:	612-Household waste
Method:	R01-Recycler
Facility County:	Los Angeles

Name:	CITY OF POMONA PUBLIC WORKS
Address:	875 W ORANGE GROVE AVE
City,State,Zip:	POMONA, CA 91768
Year:	2004
GEPAID:	CAH111001351
Contact:	DAVID HAMILTON
Telephone:	9096202288
Mailing Name:	Not reported
Mailing Address:	PO BOX 660
Mailing City,St,Zip:	POMONA, CA 91769
Gen County:	Los Angeles
TSD EPA ID:	CAD982444481
TSD County:	San Bernardino
Tons:	Not reported
CA Waste Code:	-
Method:	R01-Recycler
Facility County:	Los Angeles

SECTION 3: DATABASES AND UPDATE DATES

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DATABASES FOUND IN THIS REPORT

CA HAZNET: Facility and Manifest Data
Source: California Environmental Protection Agency
Telephone: 916-255-1136
Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2017
Database Release Frequency: Annually

Date of Last EDR Contact: 04/22/2019
Date of Next Scheduled Update: 07/22/2019

APPENDIX F

L.Y. Environmental, Inc. Summary Report for Lead Soil Evaluation

DRAFT

L.Y. Environmental, Inc.

1050 Nevada Street, Suite 403, Redlands, CA 92374 • Phone (909) 239-2202 • Fax (909) 307-9740

July 5, 2019

LOR Geotechnical Group, Inc.
Contact: Mathew L. Hunt
Office: 951-653-1760
Mobile: 951-288-5824
Fax: 951-653-1741
Email: mhunt@lorgeo.com

Summary Report: Lead Soil Evaluation Report
861, 863, & 875 W Orange Grove Ave, Pomona, CA 91767
Church of Brethren Property

I. Introduction

L.Y. Environmental Inc., (LYEI) received a request from Mr. Mathew Hunt, to conduct a Lead Soil Evaluation for the church property located at 861, 863, & 875 W Orange Grove Ave, Pomona, California. LYEI was requested to inspect/assess the above-mentioned property for the existence of lead contamination and to provide a written report of findings.

II. Background/Methodology

Yonan Benjamin (CDPH Lead Inspector/Assessor #13360) of LYEI conducted the survey at the subject site on June 25, 2019. The report was conducted, reviewed and completed by Yonan Benjamin.

The structure is slated for complete demolition and appears to be intact and in good condition. The property comprises of a Church Facility with a large yard and a playground, and two adjacent residential structures with a detached Garage. The church playground includes a mini soccer field and a sandbox play area. Soil samples were taken according to the HUD Guidelines in Appendix 13.3. Samples were also taken from bare soil, from the top 1/2 inch of soil, and were composited. Paint chips in the soil were included in the sample and grass, twigs, stones, etc. were avoided. Samples were collected in aliquots of 5-10 subsamples and were taken, at least 2 feet apart, and about 2 feet out from the foundation of the buillding. Samples were taken using a coring sampler devise and inserted/put in a rigid-sided container with a sealable top.

The samples were later taken to Micron Environmental Labs, which is a California ELAP Lab (CA ELAP Certificate No. 2297). Lead in soil samples were analyzed by using EPA SW846-3050B Method.

III. Findings/Conclusions

L.Y. Environmental, Inc conducted the soil evaluation of the Church property on June 25, 2019. The soil testing conducted achieved clearance for all soil areas of the property located on 861, 863, & 875 W Orange Grove Ave, Pomona, California. The Soil Sample Lead results of the exterior perimeter areas were found to be less than the CDPH Clearance Standard of 400 in the Playground area and 1000 ppm in all other exterior soil areas. And hence, the exterior soil testing conducted in the above-mentioned area has successfully achieved clearance.

Sample No.	Sample Location	Sample Description	Sample Results in (PPM), 400 Playground; 1000 all other Areas
S-001	North of Sanctuary	Soil	95
S-002	South of Main Offices	Soil	336
S-003	West of Fellowship	Soil	228
S-004	South of Fellowship	Soil	64
S-005	East of Kitchen	Soil	82
S-006	North of Offices	Soil	12
S-007	West of Sanctuary	Soil	99
S-008	South of Sanctuary	Soil	56
S-009	South of 863 / West of 861	Soil	90
S-010	South of 861	Soil	81
S-011	East of 861	Soil	954
S-012	North of 861	Soil	58
S-013	North & West of 863	Soil	53
S-014	East & North of Garage	Soil	126

Thank you for giving L.Y. Environmental, Inc. the opportunity to complete this clearance te sting. We would be happy to provide any additional services, if necessary. Should there be any question, or if I may be of further assistance, please feel free to contact me.

Sincerely,

Yonan Benjamin

Yonan Benjamin, CIH CAC LPM
Director, Indoor Air Quality and Industrial Hygiene
Certified Industrial Hygienist (ABIH #7299)
California Asbestos Consultant (DOSH #02/3228)
Lead Project Monitor (DHS# 13360)

Micron Environmental Labs, Inc.

3565 Lexington Av.
El Monte, CA 91731

Prep and Analytical Method: EPA SW846-3050B, EPA 7420
ERA No: M088869
CA ELAP Certificate No.: 2297

Micron Ref. No.: 10419023
Date: 7/3/2019

Lead (Pb) in Soils, Sludges and Misc. Solids - Summary Results

Project: 875 W. Orange Grove Ave., Pomona, CA

Analyst: Edward Espinoza

Name: LY Environmental
Address: 1050 Nevada St. #403
City, State, Zip: Redlands, CA 92374

Date Collected: 6/25/2019
Date Received: 6/26/2019
Date Analyzed: 7/3/2019
No. of samples: **14**

Sample No.	Sample Description	Sample Mass (g)	Vol. (ml)	Dil. Factor	Conc. (mg/L)	Results	
						mg/kg (ppm)	% weight
S-001	**Soil**	1.0130	25	1	3.83	**95**	**< 0.009**
S-002	**Soil**	1.0567	25	1	14.2	**336**	**< 0.034**
S-003	**Soil**	1.1493	25	1	10.5	**228**	**< 0.023**
S-004	**Soil**	1.9597	25	1	5.01	**64**	**< 0.006**
S-005	**Soil**	1.1586	25	1	3.81	**82**	**< 0.008**
S-006	**Soil**	1.1845	25	1	0.59	**12**	**< 0.001**
S-007	**Soil**	1.3585	25	1	5.40	**99**	**< 0.010**
S-008	**Soil**	1.2471	25	1	2.79	**56**	**< 0.006**
S-009	**Soil**	1.0811	25	1	3.91	**90**	**< 0.009**
S-010	**Soil**	1.0401	25	1	3.36	**81**	**< 0.008**
S-011	**Soil**	1.0104	50	1	19.3	**954**	**< 0.095**
S-012	**Soil**	1.0321	25	1	2.40	**58**	**< 0.006**
S-013	**Soil**	1.1225	25	1	2.39	**53**	**< 0.005**
S-014	**Soil**	1.0706	25	1	5.40	**126**	**< 0.013**

Analyst Signature

Daniel Gamez, Laboratory Director

ppm = parts per million. Reporting Limit = 0.400mg/L or 10ug for a sample volume of 25mL. Method Detection Limit = 0.100mg/L or 2.5ug for a sample volume of 25mL. Reporting limit is volume and mass dependent.

Lead ~~Wipe~~ Soil Sample Data Log

COMPANY: L.Y. Environmental, INC.
CONTACT: YONAN BENJAMIN
SAMPLED BY: YONAN BENJAMIN
DATE SAMPLED: 6-25-2019
TIME SAMPLED: 3:00 P.M.

REFERENCE NUMBER:

PROJECT REFERENCE: 875 W. Orange Grove Ave., POMONA, CA.

SAMPLE ID	SAMPLE LOCATION	SAMPLE DESCRIPTION	AREA Sq. ft. or Sq. cm.	COMMENTS
S-1	NORTH of SANCTUARY	SOIL COMPOSITE	N/A	Pb (Lead) Analysis in (PPM)
S-2	South of Main OFFICES	"	N/A	"
S-3	west of Fellowship	"	N/A	"
S-4	South of Fellowship	"	N/A	"
S-5	East of Kitchen	"	N/A	"
S-6	NORTH OF OFFICES	"	N/A	"
S-7	West of Sanctuary	"	N/A	"
S-8	South of Sanctuary	"	N/A	"
S-9	South of 863 West of 861	"	N/A	"
S-10	South of 861	"	N/A	"

* For Sample locations, see diagram

DATE ANALYZED:	
ANALYST:	

Normal TA

6/26 800

VER 1.00

Soil
Lead ~~Wipe~~ Sample Data Log

COMPANY: L.Y. Environmental, INC.
CONTACT: YONAN BENJAMIN
SAMPLED BY: YONAN BENJAMIN
DATE SAMPLED: 6-25-2019
TIME SAMPLED: 3:00 P.M.

REFERENCE NUMBER:

PROJECT REFERENCE:
875 W. Orange Grove Ave.,
POMONA, CA.

SAMPLE ID	SAMPLE LOCATION	SAMPLE DESCRIPTION	AREA Sq. ft. or Sq. cm.	COMMENTS
S-11	East of 861	Soil Composite	N/A	Pb (Lead) Analysis
S-12	North of 861	"	N/A	in PPM "
S-13	North & West of 863	"	N/A	"
S-14	East & North of Garage	"	N/A	"

Received 6/26 800

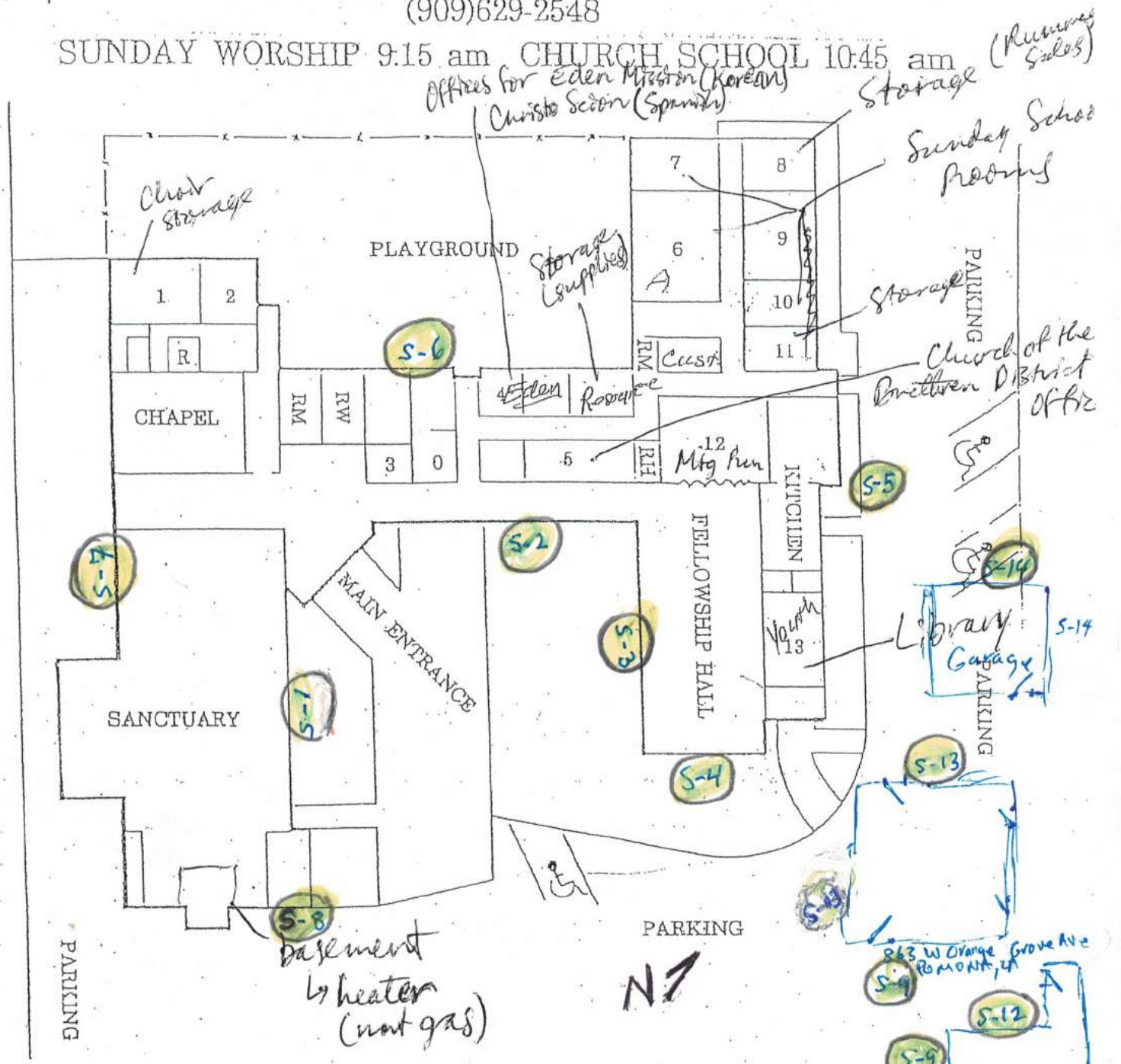
DATE ANALYZED:	
ANALYST:	

9,604 sq ft

875 WEST ORANGE GROVE AVENUE, POMONA

(909)629-2548

SUNDAY WORSHIP 9:15 am CHURCH SCHOOL 10:45 am



Classrooms 0-13

- 0 - Office
- 1 - Choir Room
- 2 - Nursery & Child Care
- 3 - Conference Room
- 4 -
- 5 - Library
- 7 -
- 10-
- 12- Ida Howell
- 13- Youth

Restrooms

- RW- Women
- RM- Men
- R - Either
- RH- Handicap accessible

Note:
Approx. composite soil sample locations are highlighted.

APPENDIX G

Laboratory Analytical Report for Soil Sampling for Arsenic and OCPs

DRAFT

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CASE NARRATIVE

Authorized Signature Name / Title (print)	Ken Zheng, President
Signature / Date	Ken Zheng, President 07/03/2019 14:51:17
Laboratory Job No. (Certificate of Analysis No.)	1906-00240
Project Name / No.	861 & 875 W.ORANGE GROVE AVE, POMONA
Dates Sampled (from/to)	06/25/19 To 06/25/19
Dates Received (from/to)	06/25/19 To 06/25/19
Dates Reported (from/to)	07/03/19 To 7/3/2019
Chains of Custody Received	Yes

Comments:

Subcontracting

Organic Analyses

No analyses sub-contracted

Inorganic Analyses

4 EPA 6020 sample(s) reported by technician CEL were contracted to Eurofins Calscience

All results for sub-contracted analyses may be sent separately

Sample Condition(s)

All samples intact

Positive Results (Organic Compounds)

None

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CERTIFICATE OF ANALYSIS

1906-00240

LOR GEOTECHNICAL GROUP, INC.
KEVIN OSMUN
6121 QUAIL VALLEY COURT
RIVERSIDE, CA 92507

Date Reported	07/03/19
Date Received	06/25/19
Invoice No.	86158
Cust #	1422
Permit Number	
Customer P.O.	

Project: 861 & 875 W.ORANGE GROVE AVE, POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 **SS-1**					Date & Time Sampled:		06/25/19 @ 13:45	
Sample Matrix: **Soil**								
Metals	SEE ATTACHED			EPA 6020	1.0		07/02/19	CEL
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		06/26/19	AL
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	06/26/19	AL
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	06/26/19	AL
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	06/26/19	AL
[Surrogates]								
Tetrachloro-m-xylene	121		%REC	EPA 8081A/8082		50-150	06/26/19	AL
Decachlorobiphenyl	99		%REC	EPA 8081A/8082		50-150	06/26/19	AL
Sample: 002 **SS-2**					Date & Time Sampled:		06/25/19 @ 14:02	
Sample Matrix: **Soil**								
Metals	SEE ATTACHED			EPA 6020	1.0		07/02/19	CEL
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		06/26/19	AL

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CERTIFICATE OF ANALYSIS

1906-00240

LOR GEOTECHNICAL GROUP, INC.
KEVIN OSMUN
6121 QUAIL VALLEY COURT
RIVERSIDE, CA 92507

Date Reported	07/03/19
Date Received	06/25/19
Invoice No.	86158
Cust #	1422
Permit Number	
Customer P.O.	

Project: 861 & 875 W.ORANGE GROVE AVE, POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 002 **SS-2**					Date & Time Sampled:		06/25/19 @ 14:02	
Sample Matrix: **Soil**								
.....continued								
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	06/26/19	AL
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	06/26/19	AL
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	06/26/19	AL
[Surrogates]								
Tetrachloro-m-xylene	118		%REC	EPA 8081A/8082		50-150	06/26/19	AL
Decachlorobiphenyl	107		%REC	EPA 8081A/8082		50-150	06/26/19	AL
Sample: 003 **SS-3**					Date & Time Sampled:		06/25/19 @ 14:33	
Sample Matrix: **Soil**								
Metals	SEE ATTACHED			EPA 6020	1.0		07/02/19	CEL
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		06/26/19	AL
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL

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1906-00240

LOR GEOTECHNICAL GROUP, INC.
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RIVERSIDE, CA 92507

Date Reported	07/03/19
Date Received	06/25/19
Invoice No.	86158
Cust #	1422
Permit Number	
Customer P.O.	

Project: 861 & 875 W.ORANGE GROVE AVE, POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 003 **SS-3**					Date & Time Sampled:		06/25/19 @ 14:33	
Sample Matrix: **Soil**								
.....continued								
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	06/26/19	AL
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	06/26/19	AL
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	06/26/19	AL
[Surrogates]								
Tetrachloro-m-xylene	125		%REC	EPA 8081A/8082		50-150	06/26/19	AL
Decachlorobiphenyl	97		%REC	EPA 8081A/8082		50-150	06/26/19	AL
Sample: 004 **SS-4**					Date & Time Sampled:		06/25/19 @ 14:50	
Sample Matrix: **Soil**								
Metals	SEE ATTACHED			EPA 6020	1.0		07/02/19	CEL
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		06/26/19	AL
Aldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
alpha-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
beta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
delta-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL

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Date Received	06/25/19
Invoice No.	86158
Cust #	1422
Permit Number	
Customer P.O.	

Project: 861 & 875 W.ORANGE GROVE AVE, POMONA

Sample: 004 **SS-4** Date & Time Sampled: 06/25/19 @ 14:50
Sample Matrix: **Soil**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
gamma-BHC	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	06/26/19	AL
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Endosulfan I	<0.00020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Endrin ketone	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Heptachlor	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Heptachlor Epoxide	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	06/26/19	AL
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	06/26/19	AL
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	06/26/19	AL
[Surrogates]								
Tetrachloro-m-xylene	119		%REC	EPA 8081A/8082		50-150	06/26/19	AL
Decachlorobiphenyl	101		%REC	EPA 8081A/8082		50-150	06/26/19	AL

Respectfully Submitted: Ken Zheng

Ken Zheng - Lab Director

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QUALIFIERS

B = Detected in the associated Method Blank at a concentration above the routine RL.
B1 = BOD dilution water is over specifications . The reported result may be biased high.
D = Surrogate recoveries are not calculated due to sample dilution.
E = Estimated value; Value exceeds calibration level of instrument.
H = Analyte was prepared and/or analyzed outside of the analytical method holding time
I = Matrix Interference.
J = Analyte concentration detected between RL and MDL.
Q = One or more quality control criteria did not meet specifications. See Comments for further explanation.
S = Customer provided specification limit exceeded.

ABBREVIATIONS

DF = Dilution Factor
RL = Reporting Limit, Adjusted by DF
MDL = Method Detection Limit, Adjusted by DF
Qual = Qualifier
Tech = Technician

As regulatory limits change frequently, A & R Laboratories advises the recipient of this report to confirm such limits with the appropriate federal, state, or local authorities before acting in reliance on the regulatory limits provided.

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.

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	2122

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FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

QUALITY CONTROL DATA REPORT

LOR GEOTECHNICAL GROUP, INC.
RIVERSIDE, CA 92507

1906-00240

Date Reported	**07/03/2019**
Date Received	**06/25/2019**
Date Sampled	**06/25/2019**
Invoice No.	**86158**
Customer #	**1422**
Customer P.O.	

Project: 861 & 875 W.ORANGE GROVE AVE, POMONA

Method # EPA 8081A
QC Reference # 82753 **Date Analyzed:** 6/26/2019 **Technician:** AL
Samples 001 002 003 004

Results

	LCS %REC	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
4,4'-DDT	90	100	84	16
Aldrin	104	102	103	1
Dieldrin	106	101	105	4
Endrin	99	84	98	14
gamma-BHC	101	94	94	0.3
Heptachlor	98	90	89	1

Control Ranges

LCS %REC	SPIKE %RPD
50 - 130	0 - 30
50 - 140	0 - 30
70 - 130	0 - 30
70 - 150	0 - 30
50 - 150	0 - 30
50 - 150	0 - 30

Method # EPA 8081A/8082
QC Reference # 82753 **Date Analyzed:** 6/26/2019 **Technician:** AL
Samples 001 002 003 004

Results

	BLKSRR%REC
Decachlorobiphenyl	103
Tetrachloro-m-xylene	100

Control Ranges

BLKSRR%REC
50 - 150
50 - 150

No method blank results were above reporting limit

Respectfully Submitted: Ken Zheng

Ken Zheng - President

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.

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WORK ORDER NUMBER: 19-06-1677

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: A&R Laboratories, Inc.

Client Project Name: 861+875 W. Orange Grove / 33557.2

Attention: Jennifer Iniguez
1650-C South Grove Avenue
Ontario, CA 91761-4018

Approved for release on 07/03/2019 by:
Stephen Nowak
Project Manager

ResultLink

Email your PM

Eurofins Calscience (Calscience) certifies that the test results provided in this report meet all NELAC Institute requirements for parameters for which accreditation is required or available. Any exceptions to NELAC Institute requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 19-06-1677

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Work Order Narrative

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Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 06/26/19. They were assigned to Work Order 19-06-1677.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-13A): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Sample Summary

Client:	A&R Laboratories, Inc. 1650-C South Grove Avenue Ontario, CA 91761-4018	Work Order:	19-06-1677
		Project Name:	861+875 W. Orange Grove / 33557.2
		PO Number:	
		Date/Time Received:	06/26/19 10:43
		Number of Containers:	4
Attn:	Jennifer Iniguez		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
SS-1	19-06-1677-1	06/25/19 13:45	1	Solid
SS-2	19-06-1677-2	06/25/19 14:02	1	Solid
SS-3	19-06-1677-3	06/25/19 14:33	1	Solid
SS-4	19-06-1677-4	06/25/19 14:50	1	Solid

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Detections Summary

Client:	A&R Laboratories, Inc. 1650-C South Grove Avenue Ontario, CA 91761-4018	Work Order:	19-06-1677
		Project Name:	861+875 W. Orange Grove / 33557.2
		Received:	06/26/19
Attn:	Jennifer Iniguez		Page 1 of 1

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
SS-1 (19-06-1677-1)						
Arsenic	4.06		1.00	mg/kg	EPA 6020	EPA 3050B
SS-2 (19-06-1677-2)						
Arsenic	1.61		1.00	mg/kg	EPA 6020	EPA 3050B
SS-3 (19-06-1677-3)						
Arsenic	3.82		1.00	mg/kg	EPA 6020	EPA 3050B
SS-4 (19-06-1677-4)						
Arsenic	4.67		1.00	mg/kg	EPA 6020	EPA 3050B

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

A&R Laboratories, Inc.
1650-C South Grove Avenue
Ontario, CA 91761-4018

Date Received: 06/26/19
Work Order: 19-06-1677
Preparation: EPA 3050B
Method: EPA 6020
Units: mg/kg

Project: 861+875 W. Orange Grove / 33557.2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS-1	**19-06-1677-1-A**	**06/25/19 13:45**	**Solid**	**ICP/MS 05**	**06/27/19**	**07/02/19 15:48**	**190627L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	4.06	1.00	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS-2	**19-06-1677-2-A**	**06/25/19 14:02**	**Solid**	**ICP/MS 05**	**06/27/19**	**07/02/19 15:51**	**190627L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	1.61	1.00	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS-3	**19-06-1677-3-A**	**06/25/19 14:33**	**Solid**	**ICP/MS 05**	**06/27/19**	**07/02/19 15:53**	**190627L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	3.82	1.00	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SS-4	**19-06-1677-4-A**	**06/25/19 14:50**	**Solid**	**ICP/MS 05**	**06/27/19**	**07/02/19 15:56**	**190627L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	4.67	1.00	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-621-1893**	**N/A**	**Solid**	**ICP/MS 05**	**06/27/19**	**07/02/19 10:52**	**190627L02**

Parameter	Result	RL	DF	Qualifiers
Arsenic	ND	1.00	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

A&R Laboratories, Inc.
1650-C South Grove Avenue
Ontario, CA 91761-4018

Date Received: 06/26/19
Work Order: 19-06-1677
Preparation: EPA 3050B
Method: EPA 6020

Project: 861+875 W. Orange Grove / 33557.2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
19-06-1818-1	**Sample**	**Solid**	**ICP/MS 05**	**06/27/19**	**06/29/19 13:32**	**190627S02**
19-06-1818-1	**Matrix Spike**	**Solid**	**ICP/MS 05**	**06/27/19**	**06/29/19 13:35**	**190627S02**
19-06-1818-1	**Matrix Spike Duplicate**	**Solid**	**ICP/MS 05**	**06/27/19**	**06/29/19 13:46**	**190627S02**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	ND	25.00	15.57	62	15.43	62	72-132	1	0-13	3

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - PDS

A&R Laboratories, Inc.		Date Received:	06/26/19
1650-C South Grove Avenue		Work Order:	19-06-1677
Ontario, CA 91761-4018		Preparation:	EPA 3050B
		Method:	EPA 6020
Project: 861+875 W. Orange Grove / 33557.2			Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
19-06-1818-1	**Sample**	**Solid**	**ICP/MS 05**	**06/27/19 00:00**	**06/29/19 13:32**	**190627S02**
19-06-1818-1	**PDS**	**Solid**	**ICP/MS 05**	**06/27/19 00:00**	**06/29/19 13:49**	**190627S02**

Parameter	Sample Conc.	Spike Added	PDS Conc.	PDS %Rec.	%Rec. CL	Qualifiers
Arsenic	ND	125.0	122.1	98	75-125	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

A&R Laboratories, Inc.	Date Received: 06/26/19
1650-C South Grove Avenue	Work Order: 19-06-1677
Ontario, CA 91761-4018	Preparation: EPA 3050B
	Method: EPA 6020
Project: 861+875 W. Orange Grove / 33557.2	Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-621-1893	**LCS**	**Solid**	**ICP/MS 05**	**06/27/19**	**07/02/19 10:55**	**190627L02**
099-15-621-1893	**LCSD**	**Solid**	**ICP/MS 05**	**06/27/19**	**07/02/19 10:57**	**190627L02**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Arsenic	25.00	28.14	113	27.73	111	80-120	1	0-20	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 19-06-1677 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 6020	EPA 3050B	110	ICP/MS 05	1

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Glossary of Terms and Qualifiers

Work Order: 19-06-1677 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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A & R Laboratories
1650 S. Grove Ave., Ste C, Ontario, CA 91761
Tel: 951-779-0310 / 909-781-6335 Fax: 951-779-0344
E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order #: **19-06-1677**

Client Name: Atk Laboratories Inc.
E-mail: Jennifer.iniguez@Arlaboratories.com
Address: 1650 S. Grove, ste C, Ontario, CA, 91761
Report Attention: J. Iniguez | Phone # / Fax #: 951 779-0310 | Sampled By: CUS
Project No./ Name: 33557.2 | Project Site: 861 + 875 W. Orang Grove

☒ Chilled ☒ Intact ☐ Seal

Turn Around Time Requested: ☐ Rush 8 12 24 48 Hours ☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6020 Arsenic	Remarks
1	SS-1	6/25	13:45	Soil	Ice	1 4oz Jar										X	
2	SS-2	↓	14:02	↓	↓	↓										X	
3	SS-3		14:33													X	
4	SS-4	V	14:50	↓	↓	↓										X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	ARL	6-26-19	1043	[signature]	LEC	6/26/19	1043
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO3; SH=NaOH; ST=Na2S2O3; HS=H2SO4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

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WORK ORDER NUMBER: 19-06-1677

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: A4R Labs.

DATE: 06/26/2019

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC6 (CF: -0.2°C); Temperature (w/o CF): 5.6 °C (w/ CF): 5.4 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter

Checked by: DM6

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: DM6

Sample(s) ☐ Present and Intact ☐ Present but Not Intact ☑ Not Present ☐ N/A Checked by: DM

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Acid/base preserved samples - pH within acceptable range	☐	☐	☑
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOA**na$_2$** ☐ 100PJ ☐ 100PJ**na$_2$** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☐ 125PB ☐ 125PB**znna** (pH__9)

☐ 250AGB ☐ 250CGB ☐ 250CGB**s** (pH__2) ☐ 250PB ☐ 250PB**n** (pH__2) ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s** (pH__2) ☐ 500PB

☐ 1AGB ☐ 1AGB**na$_2$** ☐ 1AGB**s** (pH__2) ☐ 1AGB**s** (O&G) ☐ 1PB ☐ 1PB**na** (pH__12) ☐ _____ ☐ _____ ☐ _____

Solid: ☑ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (___) ☐ EnCores® (___) ☐ TerraCores® (___) ☐ _____ ☐ _____ ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: DM

Reviewed by: 1053

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ARL

A & R Laboratories
1650 S. Grove Ave., Ste C, Ontario, CA 91761
Tel: 951-779-0310 / 909-781-6335 Fax: 951-779-0344
E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order #: 1906-240

Client Name: LOR Geotechnical Group, Inc.
E-mail: mhunt@lorgeo.com
Address: 6121 Quail Valley Court, Riverside, CA 92507
Report Attention: Mathew Hunt | Phone #: 951-653-1760 | Fax: #: 951-653-1794 | Sampled By: Mathew Hunt
Project No./ Name: 33557.2 | Project Site: 861+875 W. Orange Grove Ave., Pomona

☒ Chilled ☒ Intact ☐ Seal

Turn Around Time Requested: ☐ Rush 8 12 24 48 Hours ☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6020 AS	Remarks
1	SS-1	6/25/19	1345	Soil	Ice	1 Glass Jar					X					X	
2	SS-2	"	1402	"	"	"					X					X	
3	SS-3	"	1433	"	"	"					X					X	
4	SS-4	"	1450	"	"	"					X					X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Mathew Hunt	LOR	6/25/19	1646			6/25	16:46
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported, unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

ARL

Sample Acceptance Checklist

CLIENT: LOR GeoTech WORK ORDER NUMBER: 1906-240

Temperature:(Criteria:0.0°C-6.0°C)

Sample Temp.(w/CF) °C(w/CF) 3.3°C

☐ Sample(s) outside temprature criteria: PM contacted by :

☐ Sample(s) outside temprature criteria, but received on ice/chilled on same day of sampling.

☐ Sample(s) received at ambient temprature; placed on ice for transport by courier.

Ambient Temprature ☐ Air ☐ Filter

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present and Not Intact	✓ Not Present	
Sample(s)	☐ Present and Intact	☐ Present and Not Intact	✓ Not Present	

Sample Condition:	Yes	No	N/A
Was a COC received	✓		
Were sample IDs present?	✓		
Were sampling dates & times present?	✓		
Was a relingquished signature present?	✓		
Were the tests required clearly indicated?	✓		
Were all samples sealed in plastic bags?			✓
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of samples sent for tests indicated?	✓		
Was there headspace in VOA vials?			✓
Were the containers labeled with correct preservatives?			✓

Explanations/Comments:

Notification:

For discrepancies, how was the Project Manager notified? Verbal

Verbal: PM Initials: _____ Data/Time: _____

Email: Send to: _____ Data/Time: _____

Project Manager's response:

Completed By: _____ Date: 6/25/19

A R Laboratories
1650 S. Grove Ave., Suite C, Ontario, CA 91761
PH: 951-779-0310 Fax: 951-779-0344
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APPENDIX H

Laboratory Analytical Reports for Soil Sampling for Lead in Soil Borings

DRAFT

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CASE NARRATIVE

Authorized Signature Name / Title (print)	Ken Zheng, President
Signature / Date	Ken Zheng, President 08/05/2019 17:10:23
Laboratory Job No. (Certificate of Analysis No.)	1907-00225
Project Name / No.	825 W. ORANGE GROVE AVE , POMONA 33557.21
Dates Sampled (from/to)	07/24/19 To 07/24/19
Dates Received (from/to)	07/24/19 To 07/24/19
Dates Reported (from/to)	07/31/19 To 8/5/2019
Chains of Custody Received	Yes

Comments:

Subcontracting

Inorganic Analyses

No analyses sub-contracted

Sample Condition(s)

All samples intact

Positive Results (Organic Compounds)

None

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CERTIFICATE OF ANALYSIS

1907-00225

LOR GEOTECHNICAL GROUP, INC.
KEVIN OSMUN
6121 QUAIL VALLEY COURT
RIVERSIDE, CA 92507

Date Reported	07/31/19
Date Received	07/24/19
Invoice No.	86404
Cust #	1422
Permit Number	
Customer P.O.	33557.21

Project: 825 W. ORANGE GROVE AVE , POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 **SB-21A-0**					Date & Time Sampled:		07/24/19 @ 7:33	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**42.5**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 002 **SB-21A-1**					Date & Time Sampled:		07/24/19 @ 7:45	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**25.3**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 003 **SB-21A-3**					Date & Time Sampled:		07/24/19 @ 7:55	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**7.25**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 004 **SB-21A-5**					Date & Time Sampled:		07/24/19 @ 8:48	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**5.00**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 005 **SB-21B-0**					Date & Time Sampled:		07/24/19 @ 8:53	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**50.0**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 006 **SB-21B-1**					Date & Time Sampled:		07/24/19 @ 8:57	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**15.3**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 007 **SB-21B-3**					Date & Time Sampled:		07/24/19 @ 9:05	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**9.25**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 008 **SB-21B-4.5**					Date & Time Sampled:		07/24/19 @ 9:22	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**7.75**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 009 **SB-21C-0**					Date & Time Sampled:		07/24/19 @ 8:33	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**55.8**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 010 **SB-21C-1**					Date & Time Sampled:		07/24/19 @ 8:40	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**10.5**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 011 **SB-21C-3**					Date & Time Sampled:		07/24/19 @ 8:46	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**11.3**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 012 **SB-21C-5**					Date & Time Sampled:		07/24/19 @ 9:01	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**5.25**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 013 **SB-22A-0**					Date & Time Sampled:		07/24/19 @ 9:14	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**59.5**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 014 **SB-22A-1**					Date & Time Sampled:		07/24/19 @ 9:17	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**36.0**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 015 **SB-22A-3**					Date & Time Sampled:		07/24/19 @ 10:08	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**11.8**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 016 **SB-22B-0**					Date & Time Sampled:		07/24/19 @ 10:20	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**39.5**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 017 **SB-22B-1**					Date & Time Sampled:		07/24/19 @ 10:24	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**17.8**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 018 **SB-22B-3**					Date & Time Sampled:		07/24/19 @ 10:49	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**10.8**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ

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Project: 825 W. ORANGE GROVE AVE , POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 019 **SB-22C-0** Sample Matrix: **Soil**					Date & Time Sampled:		07/24/19 @ 9:29	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**60.5**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 020 **SB-22C-1** Sample Matrix: **Soil**					Date & Time Sampled:		07/24/19 @ 9:35	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**20.3**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 021 **SB-22C-3** Sample Matrix: **Soil**					Date & Time Sampled:		07/24/19 @ 9:50	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**11.3**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 022 **SB-23A-0** Sample Matrix: **Soil**					Date & Time Sampled:		07/24/19 @ 10:33	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**23.8**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 023 **SB-23A-1** Sample Matrix: **Soil**					Date & Time Sampled:		07/24/19 @ 10:42	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**23.5**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 024 **SB-23A-3** Sample Matrix: **Soil**					Date & Time Sampled:		07/24/19 @ 10:47	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**8.75**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ

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Customer P.O.	33557.21

Project: 825 W. ORANGE GROVE AVE , POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 025 **SB-23A-5**					Date & Time Sampled:		07/24/19 @ 10:51	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**9.25**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 026 **SB-23B-0**					Date & Time Sampled:		07/24/19 @ 11:01	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**24.8**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 027 **SB-23B-1**					Date & Time Sampled:		07/24/19 @ 11:05	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**20.8**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 028 **SB-23B-3**					Date & Time Sampled:		07/24/19 @ 12:49	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**24.5**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 029 **SB-23C-0**					Date & Time Sampled:		07/24/19 @ 13:05	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**28.8**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 030 **SB-23C-1**					Date & Time Sampled:		07/24/19 @ 13:10	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**32.0**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 031 **SB-23C-3** Sample Matrix: **Soil**					Date & Time Sampled:		07/24/19 @ 13:35	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**11.8**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 032 **SB-23C-5** Sample Matrix: **Soil**					Date & Time Sampled:		07/24/19 @ 13:43	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**11.3**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 033 **SB-24A-0** Sample Matrix: **Soil**					Date & Time Sampled:		07/24/19 @ 10:59	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**22.8**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 034 **SB-24A-1** Sample Matrix: **Soil**					Date & Time Sampled:		07/24/19 @ 11:17	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**29.3**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 035 **SB-24A-3** Sample Matrix: **Soil**					Date & Time Sampled:		07/24/19 @ 12:18	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**20.5**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 036 **SB-24B-0** Sample Matrix: **Soil**					Date & Time Sampled:		07/24/19 @ 12:34	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**27.0**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ

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Project: 825 W. ORANGE GROVE AVE , POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 037 **SB-24B-1**					Date & Time Sampled:		07/24/19 @ 12:40	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**17.0**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 038 **SB-24B-3**					Date & Time Sampled:		07/24/19 @ 12:51	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**19.8**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 039 **SB-24C-0**					Date & Time Sampled:		07/24/19 @ 13:07	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**35.0**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 040 **SB-24C-1**					Date & Time Sampled:		07/24/19 @ 13:18	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**29.3**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 041 **SB-24C-3**					Date & Time Sampled:		07/24/19 @ 13:46	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**22.0**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 042 **SB-25A-0**					Date & Time Sampled:		07/24/19 @ 14:18	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**24.8**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ

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1650 S. GROVE AVE., SUITE C
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FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1907-00225

LOR GEOTECHNICAL GROUP, INC.
KEVIN OSMUN
6121 QUAIL VALLEY COURT
RIVERSIDE, CA 92507

Date Reported	07/31/19
Date Received	07/24/19
Invoice No.	86404
Cust #	1422
Permit Number	
Customer P.O.	33557.21

Project: 825 W. ORANGE GROVE AVE , POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 043 **SB-25A-1**					Date & Time Sampled:		07/24/19 @ 14:23	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**25.0**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 044 **SB-25A-3**					Date & Time Sampled:		07/24/19 @ 14:28	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**22.5**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 045 **SB-25A-5**					Date & Time Sampled:		07/24/19 @ 14:42	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**12.3**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 046 **SB-25C-0**					Date & Time Sampled:		07/24/19 @ 14:26	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**5.25**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 047 **SB-25C-1**					Date & Time Sampled:		07/24/19 @ 14:34	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**31.0**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 048 **SB-25C-3**					Date & Time Sampled:		07/24/19 @ 14:59	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**22.3**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ

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Invoice No.	86404
Cust #	1422
Permit Number	
Customer P.O.	33557.21

Project: 825 W. ORANGE GROVE AVE , POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 049 **SB-25C-4**					Date & Time Sampled:		07/24/19 @ 15:10	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**24.3**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ

Respectfully Submitted: Ken Zheng

Ken Zheng - Lab Director

QUALIFIERS

B = Detected in the associated Method Blank at a concentration above the routine RL.
B1 = BOD dilution water is over specifications . The reported result may be biased high.
D = Surrogate recoveries are not calculated due to sample dilution.
E = Estimated value; Value exceeds calibration level of instrument.
H = Analyte was prepared and/or analyzed outside of the analytical method holding time
I = Matrix Interference.
J = Analyte concentration detected between RL and MDL.
Q = One or more quality control criteria did not meet specifications. See Comments for further explanation.
S = Customer provided specification limit exceeded.

ABBREVIATIONS

DF = Dilution Factor
RL = Reporting Limit, Adjusted by DF
MDL = Method Detection Limit, Adjusted by DF
Qual = Qualifier
Tech = Technician

As regulatory limits change frequently, A & R Laboratories advises the recipient of this report to confirm such limits with the appropriate federal, state, or local authorities before acting in reliance on the regulatory limits provided.

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.

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QUALITY CONTROL DATA REPORT

LOR GEOTECHNICAL GROUP, INC.
RIVERSIDE, CA 92507

1907-00225

Date Reported	**07/31/2019**
Date Received	**07/24/2019**
Date Sampled	**07/24/2019**
Invoice No.	**86404**
Customer #	**1422**
Customer P.O.	**33557.21**

Project: 825 W. ORANGE GROVE AVE , POMONA

Method # EPA 6010B

QC Reference # 83473 **Date Analyzed:** 7/29/2019 **Technician:** KZ

Samples 001 002 003 004 005 006 007 008 009 010 011 012 013 014 015 016 017 018 019

Results

	LCS %REC	LCS %DUP	LCS %RPD
Lead	95	92	3

Control Ranges

LCS %REC	LCS %RPD
75 - 125	0 - 20

QC Reference # 83475 **Date Analyzed:** 7/29/2019 **Technician:** KZ

Samples 020 021 022 023 024 025 026 027 028 029 030 031 032 033 034 035 036 037 038 039

Results

	LCS %REC	LCS %DUP	LCS %RPD
Lead	92	85	7

Control Ranges

LCS %REC	LCS %RPD
75 - 125	0 - 20

QC Reference # 83480 **Date Analyzed:** 7/29/2019 **Technician:** KZ

Samples 040 041 042 043 044 045 046 047 048 049

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Lead	95	91	4	89	85	4

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 20	0 - 20

No method blank results were above reporting limit

Respectfully Submitted: Ken Zheng

Ken Zheng - President

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ARL

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E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order #: 1907-225

Client Name: LOR Geotechnical Group, Inc.
E-mail: mhunt@lorgeo.com
Address: 6121 Quail Valley Court, Riverside
Report Attention: Mathew L. Hunt | Phone #: 951-653-1766 | Fax: #: 951-653-1741
Sampled By: Mathew L. Hunt
Project No./ Name: 33557.21
Project Site: 875 W. Orange Grove Ave., Pomona

☒ Chilled
☒ Intact
☐ Seal

Turn Around Time Requested: ☐ Rush 8 12 24 48 Hours ☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6010B Pb	Remarks
1	SB-21A-0	7/24/19	0733	Soil	—	1G										X	
2	SB-21A-1		0745													X	
3	SB-21A-3		0755													X	
4	SB-21A-5		0848													X	
5	SB-21B-0		0853													X	
6	SB-21B-1		0857													X	
7	SB-21B-3		0905													X	
8	SB-21B-4.5		0922													X	
9	SB-21C-0		0833													X	
10	SB-21C-1		0840													X	
11	SB-21C-3		0846													X	
12	SB-21C-5		0901													X	
13	SB-22A-0		0914													X	
14	SB-22A-1		0917													X	
15	SB-22A-3		1008													X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Mathew L. Hunt	LOR	7/24/19	1746		A&R	7/24/19	1746
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

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E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order #: 1907.225

Client Name: LOR Geotechnical Group, Inc.
E-mail:
Address: =SAME=
Report Attention | Phone # / Fax: # | Sampled By:
Project No./ Name: 33557.21
Project Site: 875 W. Orange Grove Ave., Pomona

☒ Chilled ☒ Intact ☐ Seal

Turn Around Time Requested: ☐ Rush 8 12 24 48 Hours ☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6010B Pb	Remarks
16	SB-22B-0	7/24/19	1020	Soil	—	1G										X	
17	SB-22B-1		1024													X	
18	SB-22B-3		1049													X	
19	SB-22C-0		0929													X	
20	SB-22C-1		0935													X	
21	SB-22C-3		0950													X	
22	SB-23A-0		1033													X	
23	SB-23A-1		1042													X	
24	SB-23A-3		1047													X	
25	SB-23A-5		1051													X	
26	SB-23B-0		1101													X	
27	SB-23B-1		1105													X	
28	SB-23B-3		1249													X	
29	SB-23C-0		1315													X	
30	SB-23C-1		1310													X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	LOR	7/24/19	1746	[signature]	A+R	7/24/19	1746
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

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E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order #: 1907.225

Client Name: LOR Geotechnical Group, Inc.
E-mail:
Address: =SAME=
Report Attention | Phone # / Fax: # | Sampled By

☑ Chilled ☒ Intact ☐ Seal

Project No./ Name: 33557.21
Project Site: 875 W. Orange Grove Ave., Pomona

Turn Around Time Requested: ☐ Rush 8 12 24 48 Hours ☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6010B Pb	Remarks
31	SB-23C-3	7/24/19	1335	Soil	—	1G										X	
32	SB-23C-5		1343													X	
33	SB-24A-0		1059													X	
34	SB-24A-1		1117													X	
35	SB-24A-3		1218													X	
36	SB-24B-0		1234													X	
37	SB-24B-1		1240													X	
38	SB-24B-3		1251													X	
39	SB-24C-0		1307													X	
40	SB-24C-1		1318													X	
41	SB-24C-3		1346													X	
42	SB-25A-0		1418													X	
43	SB-25A-1		1423													X	
44	SB-25A-3		1428													X	
45	SB-25A-5		1442													X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Matthew Hunt	LOR	7/24/19	1746	[signature]	A&R	7/24/19	1746
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

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E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order #: 1907-225

Client Name: LOR Geotechnical Group, Inc.
E-mail:
Address: =SAME=
Report Attention | Phone # / Fax: # | Sampled By

☒ Chilled ☒ Intact ☐ Seal

Project No./ Name: 33557.21
Project Site: 875 W. Orange Grove Ave., Pomona

Turn Around Time Requested: ☐ Rush 8 12 24 48 Hours ☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6010B Pb	Remarks
46	SB-25C-0	7/24/19	1426	Soil	—	1G										X	
47	SB-25C-1	"	1434	"	"	"										X	
48	SB-25C-3	"	1459	"	"	"										X	
49	SB-25C-4	"	1510	"	"	"										X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Nicholas L Hunt	LOR	7/24/19	1746		A&R	7/24/19	1746
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

Sample Acceptance Checklist

CLIENT: LOR Geotechnical WORK ORDER NUMBER: 1907.00225

Temperature:(Criteria:0.0°C-6.0°C)

Sample Temp.(w/CF) °C(w/CF) 4.2°c

☐ Sample(s) outside temprature criteria: PM contacted by:

☐ Sample(s) outside temprature criteria, but received on ice/chilled on same day of sampling.

☐ Sample(s) received at ambient temprature; placed on ice for transport by courier.

Ambient Temprature ☐ Air ☐ Filter

CUSTODY SEAL:

Cooler	☐	Present and Intact	☐	Present and Not Intact	✓	Not Present
Sample(s)	☐	Present and Intact	☐	Present and Not Intact	✓	Not Present

Sample Condition:	Yes	No	N/A
Was a COC received	✓		
Were sample IDs present?	✓		
Were sampling dates & times present?	✓		
Was a relingquished signature present?	✓		
Were the tests required clearly indicated?	✓		
Were all samples sealed in plastic bags?		✓	
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of samples sent for tests indicated?	✓		
Was there headspace in VOA vials?			✓
Were the containers labeled with correct preservatives?			✓

Explanations/Comments:

Notification:

For discrepancies, how was the Project Manager notified? Verbal

Verbal: PM Initials: _____ Data/Time: _____

Email: Send to: _____ Data/Time: _____

Project Manager's response:

Completed By: _____ Date: 7.24.19

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CASE NARRATIVE

Authorized Signature Name / Title (print)	Ken Zheng, President
Signature / Date	Ken Zheng, President 08/05/2019 17:17:59
Laboratory Job No. (Certificate of Analysis No.)	1907-00230
Project Name / No.	875 W. ORANGE GROVE AVE, POMONA 33557.21
Dates Sampled (from/to)	07/25/19 To 07/25/19
Dates Received (from/to)	07/25/19 To 07/25/19
Dates Reported (from/to)	07/31/19 To 8/5/2019
Chains of Custody Received	Yes

Comments:

Subcontracting

Inorganic Analyses

No analyses sub-contracted

Sample Condition(s)

All samples intact

Positive Results (Organic Compounds)

None

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1907-00230

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KEVIN OSMUN
6121 QUAIL VALLEY COURT
RIVERSIDE, CA 92507

Date Reported	07/31/19
Date Received	07/25/19
Invoice No.	86350
Cust #	1422
Permit Number	
Customer P.O.	33557.21

Project: 875 W. ORANGE GROVE AVE, POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 **SB-25B-0**					Date & Time Sampled:		07/25/19 @ 6:24	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**23.8**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 002 **SB-25B-1**					Date & Time Sampled:		07/25/19 @ 6:28	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**26.0**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 003 **SB-25B-3**					Date & Time Sampled:		07/25/19 @ 6:34	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**22.8**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 004 **SB-25B-4.5**					Date & Time Sampled:		07/25/19 @ 6:48	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**21.8**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 005 **SB-26A-0**					Date & Time Sampled:		07/25/19 @ 6:27	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**39.5**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ
Sample: 006 **SB-26A-1**					Date & Time Sampled:		07/25/19 @ 6:29	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/29/19	KZ
Lead	**29.5**		mg/Kg	EPA 6010B	1.0	0.500	07/29/19	KZ

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1907-00230

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KEVIN OSMUN
6121 QUAIL VALLEY COURT
RIVERSIDE, CA 92507

Date Reported	07/31/19
Date Received	07/25/19
Invoice No.	86350
Cust #	1422
Permit Number	
Customer P.O.	33557.21

Project: 875 W. ORANGE GROVE AVE, POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 007 **SB-26A-3**					Date & Time Sampled:		07/25/19 @ 6:35	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**22.3**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 008 **SB-26A-5**					Date & Time Sampled:		07/25/19 @ 6:45	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**26.5**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 009 **SB-26B-0**					Date & Time Sampled:		07/25/19 @ 6:40	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**36.5**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 010 **SB-26B-1**					Date & Time Sampled:		07/25/19 @ 6:42	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**30.0**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 011 **SB-26B-3**					Date & Time Sampled:		07/25/19 @ 6:46	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**22.3**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 012 **SB-26B-5**					Date & Time Sampled:		07/25/19 @ 6:54	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**16.8**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ

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Project: 875 W. ORANGE GROVE AVE, POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 013 **SB-26C-0**					Date & Time Sampled:		07/25/19 @ 6:57	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**16.0**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 014 **SB-26C-1**					Date & Time Sampled:		07/25/19 @ 6:59	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**12.3**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 015 **SB-26C-3**					Date & Time Sampled:		07/25/19 @ 7:01	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**15.5**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 016 **SB-26C-5**					Date & Time Sampled:		07/25/19 @ 7:08	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**16.5**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 017 **SB-27A-0**					Date & Time Sampled:		07/25/19 @ 7:06	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**12.0**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 018 **SB-27A-1**					Date & Time Sampled:		07/25/19 @ 7:09	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**24.3**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ

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Project: 875 W. ORANGE GROVE AVE, POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 019 **SB-27A-3**					Date & Time Sampled:		07/25/19 @ 7:13	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**19.5**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 020 **SB-27A-5**					Date & Time Sampled:		07/25/19 @ 7:27	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**17.8**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 021 **SB-27B-0**					Date & Time Sampled:		07/25/19 @ 7:11	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**11.0**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 022 **SB-27B-1**					Date & Time Sampled:		07/25/19 @ 7:32	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**28.8**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 023 **SB-27B-3**					Date & Time Sampled:		07/25/19 @ 7:37	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**16.0**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 024 **SB-27B-5**					Date & Time Sampled:		07/25/19 @ 7:39	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**14.5**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ

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Project: 875 W. ORANGE GROVE AVE, POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 025 **SB-27C-0**					Date & Time Sampled:		07/25/19 @ 7:12	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**6.50**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 026 **SB-27C-1**					Date & Time Sampled:		07/25/19 @ 7:36	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**26.3**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 027 **SB-27C-3**					Date & Time Sampled:		07/25/19 @ 7:38	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**21.0**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 028 **SB-27C-5**					Date & Time Sampled:		07/25/19 @ 7:42	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**15.5**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 029 **SB-28A-0**					Date & Time Sampled:		07/25/19 @ 7:49	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**6.50**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 030 **SB-28A-1**					Date & Time Sampled:		07/25/19 @ 7:52	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**28.5**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ

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Project: 875 W. ORANGE GROVE AVE, POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 031 **SB-28A-3**					Date & Time Sampled:		07/25/19 @ 8:01	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**17.5**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 032 **SB-28A-5**					Date & Time Sampled:		07/25/19 @ 8:05	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**23.8**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 033 **SB-28B-0**					Date & Time Sampled:		07/25/19 @ 7:50	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**11.8**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 034 **SB-28B-1**					Date & Time Sampled:		07/25/19 @ 8:10	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**27.5**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 035 **SB-28B-3**					Date & Time Sampled:		07/25/19 @ 8:13	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**17.5**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 036 **SB-28B-5**					Date & Time Sampled:		07/25/19 @ 8:17	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**17.8**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 037 **SB-28C-0**					Date & Time Sampled:		07/25/19 @ 7:51	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**2.75**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 038 **SB-28C-1**					Date & Time Sampled:		07/25/19 @ 8:11	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**29.0**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 039 **SB-28C-3**					Date & Time Sampled:		07/25/19 @ 8:16	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**15.3**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 040 **SB-28C-5**					Date & Time Sampled:		07/25/19 @ 8:21	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**9.00**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 041 **SB-17A-0**					Date & Time Sampled:		07/25/19 @ 12:29	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**83.8**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 042 **SB-17A-1**					Date & Time Sampled:		07/25/19 @ 12:32	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**21.5**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 043 **SB-17A-3**					Date & Time Sampled:		07/25/19 @ 12:38	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**9.75**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 044 **SB-17A-5**					Date & Time Sampled:		07/25/19 @ 12:41	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**14.8**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 045 **SB-17B-0**					Date & Time Sampled:		07/25/19 @ 12:42	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**62.5**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 046 **SB-17B-1**					Date & Time Sampled:		07/25/19 @ 12:45	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**17.5**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 047 **SB-17B-3**					Date & Time Sampled:		07/25/19 @ 12:47	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**5.75**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 048 **SB-17B-5**					Date & Time Sampled:		07/25/19 @ 12:52	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	<0.500		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 049 **SB-17C-0**					Date & Time Sampled:		07/25/19 @ 12:24	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**66.3**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 050 **SB-17C-1**					Date & Time Sampled:		07/25/19 @ 12:26	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**6.50**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 051 **SB-17C-3**					Date & Time Sampled:		07/25/19 @ 12:30	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**9.00**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 052 **SB-17C-5**					Date & Time Sampled:		07/25/19 @ 12:37	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**11.3**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 053 **SB-18A-0**					Date & Time Sampled:		07/25/19 @ 11:37	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**119**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 054 **SB-18A-1**					Date & Time Sampled:		07/25/19 @ 11:44	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**13.8**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ

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CERTIFICATE OF ANALYSIS

1907-00230

LOR GEOTECHNICAL GROUP, INC.
KEVIN OSMUN
6121 QUAIL VALLEY COURT
RIVERSIDE, CA 92507

Date Reported	07/31/19
Date Received	07/25/19
Invoice No.	86350
Cust #	1422
Permit Number	
Customer P.O.	33557.21

Project: 875 W. ORANGE GROVE AVE, POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 055 **SB-18A-3**					Date & Time Sampled:		07/25/19 @ 11:54	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**1.00**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 056 **SB-18A-5**					Date & Time Sampled:		07/25/19 @ 11:57	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**7.00**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 057 **SB-18B-0**					Date & Time Sampled:		07/25/19 @ 11:58	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**120**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 058 **SB-18B-1**					Date & Time Sampled:		07/25/19 @ 12:01	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**28.5**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 059 **SB-18B-3**					Date & Time Sampled:		07/25/19 @ 12:03	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**11.3**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 060 **SB-18B-5**					Date & Time Sampled:		07/25/19 @ 12:09	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**10.3**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ

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1907-00230

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Date Reported	07/31/19
Date Received	07/25/19
Invoice No.	86350
Cust #	1422
Permit Number	
Customer P.O.	33557.21

Project: 875 W. ORANGE GROVE AVE, POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 061 **SB-18C-0**					Date & Time Sampled:		07/25/19 @ 11:40	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**29.5**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 062 **SB-18C-1**					Date & Time Sampled:		07/25/19 @ 11:42	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**44.8**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 063 **SB-18C-3**					Date & Time Sampled:		07/25/19 @ 11:45	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**15.3**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 064 **SB-18C-5**					Date & Time Sampled:		07/25/19 @ 11:49	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**10.0**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 065 **SB-19A-0**					Date & Time Sampled:		07/25/19 @ 9:37	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**47.0**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 066 **SB-19A-1**					Date & Time Sampled:		07/25/19 @ 9:41	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**16.5**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ

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Date Reported	07/31/19
Date Received	07/25/19
Invoice No.	86350
Cust #	1422
Permit Number	
Customer P.O.	33557.21

Project: 875 W. ORANGE GROVE AVE, POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 067 **SB-19A-3**					Date & Time Sampled:		07/25/19 @ 10:03	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**16.3**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 068 **SB-19B-0**					Date & Time Sampled:		07/25/19 @ 11:04	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**54.8**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 069 **SB-19B-1**					Date & Time Sampled:		07/25/19 @ 11:09	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**24.8**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 070 **SB-19B-3**					Date & Time Sampled:		07/25/19 @ 11:16	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**12.3**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 071 **SB-19C-0**					Date & Time Sampled:		07/25/19 @ 9:38	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**133**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 072 **SB-19C-1**					Date & Time Sampled:		07/25/19 @ 9:40	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**12.5**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ

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RIVERSIDE, CA 92507

Date Reported	07/31/19
Date Received	07/25/19
Invoice No.	86350
Cust #	1422
Permit Number	
Customer P.O.	33557.21

Project: 875 W. ORANGE GROVE AVE, POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 073 **SB-19C-3**					Date & Time Sampled:		07/25/19 @ 9:55	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**16.3**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 074 **SB-19C-5**					Date & Time Sampled:		07/25/19 @ 10:00	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**13.3**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 075 **SB-20A-0**					Date & Time Sampled:		07/25/19 @ 8:48	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**46.0**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 076 **SB-20A-1**					Date & Time Sampled:		07/25/19 @ 8:54	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**17.3**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 077 **SB-20A-3**					Date & Time Sampled:		07/25/19 @ 9:07	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**21.3**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 078 **SB-20B-0**					Date & Time Sampled:		07/25/19 @ 9:08	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**40.3**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ

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Date Reported	07/31/19
Date Received	07/25/19
Invoice No.	86350
Cust #	1422
Permit Number	
Customer P.O.	33557.21

Project: 875 W. ORANGE GROVE AVE, POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 079 **SB-20B-1** Sample Matrix: **Soil**					Date & Time Sampled:		07/25/19 @ 9:09	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**19.3**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 080 **SB-20B-3** Sample Matrix: **Soil**					Date & Time Sampled:		07/25/19 @ 9:18	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**12.3**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 081 **SB-20C-0** Sample Matrix: **Soil**					Date & Time Sampled:		07/25/19 @ 8:49	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**85.0**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 082 **SB-20C-1** Sample Matrix: **Soil**					Date & Time Sampled:		07/25/19 @ 8:52	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**15.0**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ
Sample: 083 **SB-20C-3** Sample Matrix: **Soil**					Date & Time Sampled:		07/25/19 @ 9:05	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/30/19	KZ
Lead	**17.8**		mg/Kg	EPA 6010B	1.0	0.500	07/30/19	KZ

Respectfully Submitted: Ken Zheng

Ken Zheng - Lab Director

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QUALIFIERS

B = Detected in the associated Method Blank at a concentration above the routine RL.
B1 = BOD dilution water is over specifications . The reported result may be biased high.
D = Surrogate recoveries are not calculated due to sample dilution.
E = Estimated value; Value exceeds calibration level of instrument.
H = Analyte was prepared and/or analyzed outside of the analytical method holding time
I = Matrix Interference.
J = Analyte concentration detected between RL and MDL.
Q = One or more quality control criteria did not meet specifications. See Comments for further explanation.
S = Customer provided specification limit exceeded.

ABBREVIATIONS

DF = Dilution Factor
RL = Reporting Limit, Adjusted by DF
MDL = Method Detection Limit, Adjusted by DF
Qual = Qualifier
Tech = Technician

As regulatory limits change frequently, A & R Laboratories advises the recipient of this report to confirm such limits with the appropriate federal, state, or local authorities before acting in reliance on the regulatory limits provided.

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.

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QUALITY CONTROL DATA REPORT

LOR GEOTECHNICAL GROUP, INC.
RIVERSIDE, CA 92507

1907-00230

Date Reported	**07/31/2019**
Date Received	**07/25/2019**
Date Sampled	**07/25/2019**
Invoice No.	**86350**
Customer #	**1422**
Customer P.O.	**33557.21**

Project: 875 W. ORANGE GROVE AVE, POMONA

Method # EPA 6010B

QC Reference # 83480 **Date Analyzed:** 7/29/2019 **Technician:** KZ

Samples 001 002 003 004 005 006

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Lead	95	91	4	89	85	4

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 20	0 - 20

QC Reference # 83481 **Date Analyzed:** 7/30/2019 **Technician:** KZ

Samples 007 008 009 010 011 012 013 014 015 016 017 018 019 020 021 022 023 024 025 026

Results

	LCS %REC	LCS %DUP	LCS %RPD
Lead	98	95	3

Control Ranges

LCS %REC	LCS %RPD
75 - 125	0 - 20

QC Reference # 83482 **Date Analyzed:** 7/30/2019 **Technician:** KZ

Samples 027 028 029 030 031 032 033 034 035 036 037 038 039 040 041 042 043 044 045 046

Results

	LCS %REC	LCS %DUP	LCS %RPD
Lead	98	95	3

Control Ranges

LCS %REC	LCS %RPD
75 - 125	0 - 20

QC Reference # 83483 **Date Analyzed:** 7/30/2019 **Technician:** KZ

Samples 047 048 049 050 051 052 053 054 055 056 057 058 059 060 061 062 063 064 065 066

Results

	LCS %REC	LCS %DUP	LCS %RPD
Lead	98	95	3

Control Ranges

LCS %REC	LCS %RPD
75 - 125	0 - 20

QC Reference # 83484 **Date Analyzed:** 7/30/2019 **Technician:** KZ

Samples 067 068 069 070 071 072 073 074 075 076 077 078 079 080 081 082 083

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Lead	99	98	1	90	89	1

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 20	0 - 20

No method blank results were above reporting limit

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QUALITY CONTROL DATA REPORT

1907-00230

LOR GEOTECHNICAL GROUP, INC.

Date Reported	**07/31/2019**
Date Received	**07/25/2019**
Date Sampled	**07/25/2019**

Project: 875 W. ORANGE GROVE AVE, POMONA

Respectfully Submitted: Ken Zheng

Ken Zheng - President

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.

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CHAIN OF CUSTODY

A & R Work Order #: 1907-236

Client Name: LOR Geotechnical Group, Inc.
E-mail: mhunt@lorgeo.com
Address: 6121 Quail Valley Court, Riverside, CA 92507
Report Attention: Mathew L. Hunt | Phone #: 951-653-1760 | Fax #: 951-653-1741
Sampled By: Mathew L. Hunt
Project No./ Name: 33557.21
Project Site: 875 W. Orange Grove Ave., Pomona

☐ Chilled ☐ Intact ☐ Seal

Turn Around Time Requested
☐ Rush 8 12 24 48 Hours
☒ Normal

Analyses Requested

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6010B Pb	Remarks
1	SB-25B-0	7/25/19	0624	Soil	—	1G										X	
2	SB-25B-1		0628													X	
3	SB-25B-3		0634													X	
4	SB-25B-4.5		0648													X	
5	SB-26A-0		0627													X	
6	SB-26A-1		0629													X	
7	SB-26A-3		0635													X	
8	SB-26A-5		0645													X	
9	SB-26B-0		0640													X	
10	SB-26B-1		0642													X	
11	SB-26B-3		0646													X	
12	SB-26B-5		0654													X	
13	SB-26C-0		0657													X	
14	SB-26C-1		0659													X	
15	SB-26C-3	↓	0701	↓	↓	↓										X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Mathew L Hunt	LOR	7/25/19	1529			7/25	1529
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

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A & R Laboratories
1650 S. Grove Ave., Ste C, Ontario, CA 91761
Tel: 951-779-0310 / 909-781-6335 Fax: 951-779-0344
E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order #: 1907-230

Client Name: LOR Geotechnical Group, Inc.
E-mail:
Address:
Report Attention | Phone # / Fax: # | Sampled By

☐ Chilled ☐ Intact ☐ Seal

Project No./ Name: 33557.21
Project Site: 875 W. Orange Grove Ave., Pomona

Turn Around Time Requested: ☐ Rush 8 12 24 48 Hours ☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6010B Pb	Remarks
16	SB-26C-5	7/25/19	0708	Soil	—	1G										X	
17	SB-27A-0		0706													X	
18	SB-27A-1		0709													X	
19	SB-27A-3		0713													X	
20	SB-27A-5		0727													X	
21	SB-27B-0		0711													X	
22	SB-27B-1		0732													X	
23	SB-27B-3		0737													X	
24	SB-27B-5		0739													X	
25	SB-27C-0		0712													X	
26	SB-27C-1		0736													X	
27	SB-27C-3		0738													X	
28	SB-27C-5		0742													X	
29	SB-28A-0		0749													X	
30	SB-28A-1	↓	0752	↓	↓	↓										X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Nathan Hunt	LOR	7/25/19	1529			7/25	1529
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

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E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order #: 1907-230

Client Name: LOR Geotechnical Group, Inc.
E-mail:
Address:
Report Attention | Phone # / Fax: # | Sampled By

☐ Chilled ☐ Intact ☐ Seal

Project No./ Name: 33557.21
Project Site: 875 W. Orange Grove Ave., Pomona

Analyses Requested

Turn Around Time Requested: ☐ Rush 8 12 24 48 Hours ☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6010B Pb	Remarks
31	SB-28A-3	7/25/19	0801	Soil	—	1G										X	
32	SB-28A-5		0805													X	
33	SB-28B-0		0750													X	
34	SB-28B-1		0810													X	
35	SB-28B-3		0813													X	
36	SB-28B-5		0817													X	
37	SB-28C-0		0751													X	
38	SB-28C-1		0811													X	
39	SB-28C-3		0816													X	
40	SB-28C-5		0821													X	
41	SB-17A-0		1229													X	
42	SB-17A-1		1232													X	
43	SB-17A-3		1238													X	
44	SB-17A-5		1241													X	
45	SB-17B-0		1242													X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	LOR	7/25/19	1529	[signature]		7/25	1529
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

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CHAIN OF CUSTODY

A & R Work Order #: 1907-230

Client Name: LOR Geotechnical Group, Inc.
E-mail:
Address:
Report Attention | Phone # / Fax: # | Sampled By
Project No./ Name: 33557.21
Project Site: 875 W. Orange Grove Ave., Pomona

☐ Chilled ☐ Intact ☐ Seal

Turn Around Time Requested: ☐ Rush 8 12 24 48 Hours ☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6010B Pb	Remarks
46	SB-17B-1	7/25/19	1245	Soil	—	1G										X	
47	SB-17B-3		1247													X	
48	SB-17B-5		1252													X	
49	SB-17C-0		1224													X	
50	SB-17C-1		1226													X	
51	SB-17C-3		1230													X	
52	SB-17C-5		1237													X	
53	SB-18A-0		1137													X	
54	SB-18A-1		1144													X	
55	SB-18A-3		1154													X	
56	SB-18A-5		1157													X	
57	SB-18B-0		1158													X	
58	SB-18B-1		1201													X	
59	SB-18B-3		1203													X	
60	SB-18B-5	↓	1209	↓	↓	↓										X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[illegible] Hunt	LOR	7/25/19	1529	[illegible]		7/25	1529
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

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CHAIN OF CUSTODY

A & R Work Order #: 1907-230

Client Name: LOR Geotechnical Group, Inc.
E-mail:
Address:
Report Attention | Phone # / Fax: # | Sampled By

☐ Chilled ☐ Intact ☐ Seal

Project No./ Name: 33557.21
Project Site: 875 W. Orange Grove Ave., Pomona

Turn Around Time Requested: ☐ Rush 8 12 24 48 Hours ☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6010B Pb	Remarks
61	SB-18C-0	7/25/19	1140	Soil	—	1G										X	
62	SB-18C-1		1142													X	
63	SB-18C-3		1145													X	
64	SB-18C-5		1149													X	
65	SB-19A-0		0937													X	
66	SB-19A-1		0941													X	
67	SB-19A-3		1003													X	
68	SB-19B-0		1104													X	
69	SB-19B-1		1109													X	
70	SB-19B-3		1116													X	
71	SB-19C-0		0938													X	
72	SB-19C-1		0940													X	
73	SB-19C-3		0955													X	
74	SB-19C-5		1000													X	
75	SB-20A-0		0848													X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	LOR	7/25/19	1529	[signature]		7/25	1529
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

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CHAIN OF CUSTODY

A & R Work Order #: 1907-230

Client Name: LOR Geotechnical Group, Inc.
E-mail:
Address:
Report Attention | Phone # / Fax: # | Sampled By

☐ Chilled ☐ Intact ☐ Seal

Project No./ Name: 33557.21
Project Site: 875 W. Orange Grove Ave., Pomona

Analyses Requested

Turn Around Time Requested
☐ Rush 8 12 24 48 Hours
☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6010B Pb	Remarks
76	SB-20A-1	7/25/19	0854	Soil	—	1G										X	
77	SB-20A-3		0907													X	
78	SB-20B-0		0908													X	
79	SB-20B-1		0909													X	
80	SB-20B-3		0918													X	
81	SB-20C-0		0849													X	
82	SB-20C-1		0852													X	
83	SB-20C-3		0905													X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Nikki Hunt	LOR	7/25/19	1529			7/25	1529
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

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Sample Acceptance Checklist

CLIENT: LOR Geotech WORK ORDER NUMBER: 1907-230

Temperature:(Criteria:0.0°C-6.0°C)

Sample Temp.(w/CF) °C(w/CF) 5.1°C

☐ Sample(s) outside temprature criteria: PM contacted by :

☐ Sample(s) outside temprature criteria, but received on ice/chilled on same day of sampling.

☐ Sample(s) received at ambient temprature; placed on ice for transport by courier.

Ambient Temprature ☐ Air ☐ Filter

CUSTODY SEAL:

Cooler	☐	Present and Intact	☐	Present and Not Intact	✓	Not Present
Sample(s)	☐	Present and Intact	☐	Present and Not Intact	✓	Not Present

Sample Condition:	Yes	No	N/A
Was a COC received	✓		
Were sample IDs present?	✓		
Were sampling dates & times present?	✓		
Was a relingquished signature present?	✓		
Were the tests required clearly indicated?	✓		
Were all samples sealed in plastic bags?			✓
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of samples sent for tests indicated?	✓		
Was there headspace in VOA vials?			✓
Were the containers labeled with correct preservatives?			✓

Explanations/Comments:

Notification:

For discrepancies, how was the Project Manager notified? Verbal

Verbal: PM Initials: _____ Data/Time: _____

Email: Send to: _____ Data/Time: _____

Project Manager's response:

Completed By: [signature] Date: 7/25/19

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PH: 951-779-0310 Fax: 951-779-0344
Email: office@arlaboratories.com

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FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

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FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CASE NARRATIVE

Authorized Signature Name / Title (print)	Ken Zheng, President
Signature / Date	Ken Zheng, President 08/02/2019 10:39:01
Laboratory Job No. (Certificate of Analysis No.)	1907-00256
Project Name / No.	875 W. ORANGE GROVE AVE, POMONA 33557.21
Dates Sampled (from/to)	07/26/19 To 07/26/19
Dates Received (from/to)	07/26/19 To 07/26/19
Dates Reported (from/to)	08/02/19 To 8/2/2019
Chains of Custody Received	Yes

Comments:

Subcontracting

Inorganic Analyses

No analyses sub-contracted

Sample Condition(s)

All samples intact

Positive Results (Organic Compounds)

None

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CERTIFICATE OF ANALYSIS

1907-00256

LOR GEOTECHNICAL GROUP, INC.
KEVIN OSMUN
6121 QUAIL VALLEY COURT
RIVERSIDE, CA 92507

Date Reported	08/02/19
Date Received	07/26/19
Invoice No.	86425
Cust #	1422
Permit Number	
Customer P.O.	33557.21

Project: 875 W. ORANGE GROVE AVE, POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 **SB-13A-0** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 11:34	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**80.7**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 002 **SB-13A-1** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 11:36	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**48.3**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 003 **SB-13A-3** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 11:40	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**4.47**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 004 **SB-13A-5** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 11:43	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**5.01**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 005 **SB-13B-0** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 11:45	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**74.5**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 006 **SB-13B-1** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 11:49	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**7.47**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ

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CERTIFICATE OF ANALYSIS

1907-00256

LOR GEOTECHNICAL GROUP, INC.
KEVIN OSMUN
6121 QUAIL VALLEY COURT
RIVERSIDE, CA 92507

Date Reported	08/02/19
Date Received	07/26/19
Invoice No.	86425
Cust #	1422
Permit Number	
Customer P.O.	33557.21

Project: 875 W. ORANGE GROVE AVE, POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 007 **SB-13B-3**					Date & Time Sampled:		07/26/19 @ 11:50	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**4.14**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 008 **SB-13B-5**					Date & Time Sampled:		07/26/19 @ 11:52	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**4.31**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 009 **SB-13C-0**					Date & Time Sampled:		07/26/19 @ 11:35	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**37.1**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 010 **SB-13C-1**					Date & Time Sampled:		07/26/19 @ 11:38	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**5.86**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 011 **SB-13C-3**					Date & Time Sampled:		07/26/19 @ 11:42	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**4.31**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 012 **SB-13C-5**					Date & Time Sampled:		07/26/19 @ 11:47	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**5.32**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ

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	2790
	2122

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CERTIFICATE OF ANALYSIS

1907-00256

LOR GEOTECHNICAL GROUP, INC.
KEVIN OSMUN
6121 QUAIL VALLEY COURT
RIVERSIDE, CA 92507

Date Reported	08/02/19
Date Received	07/26/19
Invoice No.	86425
Cust #	1422
Permit Number	
Customer P.O.	33557.21

Project: 875 W. ORANGE GROVE AVE, POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 013 **SB-14A-0**					Date & Time Sampled:		07/26/19 @ 9:52	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**57.8**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 014 **SB-14A-1**					Date & Time Sampled:		07/26/19 @ 9:54	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**6.97**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 015 **SB-14A-3**					Date & Time Sampled:		07/26/19 @ 9:57	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**4.45**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 016 **SB-14A-5**					Date & Time Sampled:		07/26/19 @ 10:01	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**4.03**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 017 **SB-14B-0**					Date & Time Sampled:		07/26/19 @ 10:00	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**56.3**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 018 **SB-14B-1**					Date & Time Sampled:		07/26/19 @ 10:04	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**15.4**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 019 **SB-14B-3**					Date & Time Sampled:		07/26/19 @ 10:06	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**3.69**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 020 **SB-14B-5**					Date & Time Sampled:		07/26/19 @ 10:10	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**4.55**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 021 **SB-14C-0**					Date & Time Sampled:		07/26/19 @ 10:13	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**20.3**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 022 **SB-14C-1**					Date & Time Sampled:		07/26/19 @ 10:14	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**6.67**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 023 **SB-14C-3**					Date & Time Sampled:		07/26/19 @ 10:16	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**4.31**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 024 **SB-14C-5**					Date & Time Sampled:		07/26/19 @ 10:20	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**3.86**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 025 **SB-15A-0**					Date & Time Sampled:		07/26/19 @ 7:58	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**77.3**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 026 **SB-15A-1**					Date & Time Sampled:		07/26/19 @ 8:01	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**61.1**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 027 **SB-15A-3**					Date & Time Sampled:		07/26/19 @ 8:06	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**6.48**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 028 **SB-15A-5**					Date & Time Sampled:		07/26/19 @ 8:11	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**4.41**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 029 **SB-15B-0**					Date & Time Sampled:		07/26/19 @ 7:57	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**119**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 030 **SB-15B-1**					Date & Time Sampled:		07/26/19 @ 8:00	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**21.3**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 031 **SB-15B-3**					Date & Time Sampled:		07/26/19 @ 8:19	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**35.3**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 032 **SB-15C-0**					Date & Time Sampled:		07/26/19 @ 8:09	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**155**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 033 **SB-15C-1**					Date & Time Sampled:		07/26/19 @ 8:12	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**14.4**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 034 **SB-15C-3**					Date & Time Sampled:		07/26/19 @ 8:16	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**4.53**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 035 **SB-15C-5**					Date & Time Sampled:		07/26/19 @ 8:18	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**5.07**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 036 **SB-16A-0**					Date & Time Sampled:		07/26/19 @ 8:27	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**193**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 037 **SB-16A-1** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 8:31	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**9.16**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 038 **SB-16A-3** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 8:38	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**5.29**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 039 **SB-16A-5** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 8:48	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**14.8**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 040 **SB-16B-0** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 8:53	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**50.6**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 041 **SB-16B-1** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 9:01	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**7.64**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 042 **SB-16B-3** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 9:04	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**7.84**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 043 **SB-16B-4.5** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 9:07	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**5.95**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 044 **SB-16C-0** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 8:28	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**30.0**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 045 **SB-16C-1** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 8:36	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**4.67**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 046 **SB-16C-3** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 8:47	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**5.83**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 047 **SB-16C-4.5** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 8:52	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**6.77**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 048 **SB-29A-0** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 12:55	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**44.0**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 049 **SB-29A-1** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 12:57	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**12.7**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 050 **SB-29A-3** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 13:00	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**4.84**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 051 **SB-29A-5** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 13:04	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**8.48**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 052 **SB-29B-0** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 13:07	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**33.1**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 053 **SB-29B-1** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 13:09	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**12.5**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 054 **SB-29B-3** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 13:11	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**5.59**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 055 **SB-29B-4.5** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 13:14	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**6.64**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 056 **SB-29C-0** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 12:56	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**28.2**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 057 **SB-29C-1** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 12:58	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**9.64**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 058 **SB-29C-3** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 13:02	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**6.50**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 059 **SB-29C-5** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 13:06	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**5.86**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 060 **SB-30A-0** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 12:17	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**18.8**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ

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LA City#	10261
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CERTIFICATE OF ANALYSIS

1907-00256

LOR GEOTECHNICAL GROUP, INC.
KEVIN OSMUN
6121 QUAIL VALLEY COURT
RIVERSIDE, CA 92507

Date Reported	08/02/19
Date Received	07/26/19
Invoice No.	86425
Cust #	1422
Permit Number	
Customer P.O.	33557.21

Project: 875 W. ORANGE GROVE AVE, POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 061 **SB-30A-1** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 12:19	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**9.64**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 062 **SB-30A-3** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 12:22	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**6.38**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 063 **SB-30A-5** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 12:26	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**5.50**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 064 **SB-30B-0** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 12:27	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**9.81**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 065 **SB-30B-1** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 12:29	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**10.5**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 066 **SB-30B-3** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 12:31	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**5.84**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ

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Date Reported	08/02/19
Date Received	07/26/19
Invoice No.	86425
Cust #	1422
Permit Number	
Customer P.O.	33557.21

Project: 875 W. ORANGE GROVE AVE, POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 067 **SB-30B-5**					Date & Time Sampled:		07/26/19 @ 12:33	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**6.07**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 068 **SB-30C-0**					Date & Time Sampled:		07/26/19 @ 12:18	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**8.62**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 069 **SB-30C-1**					Date & Time Sampled:		07/26/19 @ 12:20	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**10.3**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 070 **SB-30C-3**					Date & Time Sampled:		07/26/19 @ 12:23	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**5.77**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 071 **SB-30C-5**					Date & Time Sampled:		07/26/19 @ 12:28	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**6.11**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 072 **SB-31A-0**					Date & Time Sampled:		07/26/19 @ 9:15	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**33.3**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ

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Date Reported	08/02/19
Date Received	07/26/19
Invoice No.	86425
Cust #	1422
Permit Number	
Customer P.O.	33557.21

Project: 875 W. ORANGE GROVE AVE, POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 073 **SB-31A-1**					Date & Time Sampled:		07/26/19 @ 9:18	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**11.7**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 074 **SB-31A-3**					Date & Time Sampled:		07/26/19 @ 9:24	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**4.31**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 075 **SB-31A-5**					Date & Time Sampled:		07/26/19 @ 9:29	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**3.82**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 076 **SB-31B-0**					Date & Time Sampled:		07/26/19 @ 9:35	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**27.9**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 077 **SB-31B-1**					Date & Time Sampled:		07/26/19 @ 9:39	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**5.85**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 078 **SB-31B-3**					Date & Time Sampled:		07/26/19 @ 9:41	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**4.44**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ

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CERTIFICATE OF ANALYSIS

1907-00256

LOR GEOTECHNICAL GROUP, INC.
KEVIN OSMUN
6121 QUAIL VALLEY COURT
RIVERSIDE, CA 92507

Date Reported	08/02/19
Date Received	07/26/19
Invoice No.	86425
Cust #	1422
Permit Number	
Customer P.O.	33557.21

Project: 875 W. ORANGE GROVE AVE, POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 079 **SB-31B-5** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 9:43	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**4.25**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 080 **SB-31C-0** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 9:20	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**29.9**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 081 **SB-31C-1** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 9:25	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**18.7**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 082 **SB-31C-3** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 9:30	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**4.11**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ
Sample: 083 **SB-31C-5** Sample Matrix: **Soil**					Date & Time Sampled:		07/26/19 @ 9:34	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	KZ
Lead	**3.69**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	KZ

Respectfully Submitted: Ken Zheng

Ken Zheng - Lab Director

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QUALIFIERS

B = Detected in the associated Method Blank at a concentration above the routine RL.
B1 = BOD dilution water is over specifications . The reported result may be biased high.
D = Surrogate recoveries are not calculated due to sample dilution.
E = Estimated value; Value exceeds calibration level of instrument.
H = Analyte was prepared and/or analyzed outside of the analytical method holding time
I = Matrix Interference.
J = Analyte concentration detected between RL and MDL.
Q = One or more quality control criteria did not meet specifications. See Comments for further explanation.
S = Customer provided specification limit exceeded.

ABBREVIATIONS

DF = Dilution Factor
RL = Reporting Limit, Adjusted by DF
MDL = Method Detection Limit, Adjusted by DF
Qual = Qualifier
Tech = Technician

As regulatory limits change frequently, A & R Laboratories advises the recipient of this report to confirm such limits with the appropriate federal, state, or local authorities before acting in reliance on the regulatory limits provided.

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.

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QUALITY CONTROL DATA REPORT

LOR GEOTECHNICAL GROUP, INC.
RIVERSIDE, CA 92507

1907-00256

Date Reported	**08/02/2019**
Date Received	**07/26/2019**
Date Sampled	**07/26/2019**
Invoice No.	**86425**
Customer #	**1422**
Customer P.O.	**33557.21**

Project: 875 W. ORANGE GROVE AVE, POMONA

Method # EPA 6010B

QC Reference # 83562 **Date Analyzed:** 8/1/2019 **Technician:** KZ

Samples 001 002 003 004 005 006

Results

	LCS %REC	LCS %DUP	LCS %RPD
Lead	101	100	1

Control Ranges

LCS %REC	LCS %RPD
75 - 125	0 - 20

QC Reference # 83564 **Date Analyzed:** 8/1/2019 **Technician:** KZ

Samples 007 008 009 010 011 012 013 014 015 016 017 018 019 020 021 022 023 024 025 026

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Lead	105	105	0	103	91	12

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 20	0 - 20

QC Reference # 83566 **Date Analyzed:** 8/1/2019 **Technician:** KZ

Samples 027 028 029 030 031 032 033 034 035 036 037 038 039 040 041 042 043 044 045 046

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Lead	102	103	1	89	95	6

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 20	0 - 20

QC Reference # 83568 **Date Analyzed:** 8/1/2019 **Technician:** KZ

Samples 047 048 049 050 051 052 053 054 055 056 057 058 059 060 061 062 063 064 065 066

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Lead	105	108	2	102	104	1

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 20	0 - 20

QC Reference # 83569 **Date Analyzed:** 8/1/2019 **Technician:** KZ

Samples 067 068 069 070 071 072 073 074 075 076 077 078 079 080 081 082 083

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Lead	113	110	2	116	118	1

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 20	0 - 20

No method blank results were above reporting limit

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QUALITY CONTROL DATA REPORT

1907-00256

LOR GEOTECHNICAL GROUP, INC.

Date Reported	**08/02/2019**
Date Received	**07/26/2019**
Date Sampled	**07/26/2019**

Project: 875 W. ORANGE GROVE AVE, POMONA

Respectfully Submitted: Ken Zheng

Ken Zheng - President

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.

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E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order #: 1907-256

Client Name: LOR Geotechnical Group, Inc.
E-mail: mhunt@lorgeo.com
Address: 6121 Quail Valley Court, Riverside, CA 92507
Report Attention: Mathew L. Hunt | Phone #: 951-653-1760 | Fax #: 951-653-1741
Sampled By: Mathew L. Hunt
Project No./ Name: 33557.21
Project Site: 875 W. Orange Grove Ave., Pomona

☐ Chilled ☐ Intact ☐ Seal

Turn Around Time Requested: ☐ Rush 8 12 24 48 Hours ☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6010B Pb	Remarks
1	SB-13A-0	7/26/19	1134	Soil	—	1G										X	
2	SB-13A-1		1136													X	
3	SB-13A-3		1140													X	
4	SB-13A-5		1143													X	
5	SB-13B-0		1145													X	
6	SB-13B-1		1149													X	
7	SB-13B-3		1150													X	
8	SB-13B-5		1152													X	
9	SB-13C-0		1135													X	
10	SB-13C-1		1138													X	
11	SB-13C-3		1142													X	
12	SB-13C-5		1147													X	
13	SB-14A-0		0952													X	
14	SB-14A-1		0954													X	
15	SB-14A-3		0957													X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Mathew L. Hunt	LOR	7/26/19	1609		A+R	7/26/19	1609
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

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CHAIN OF CUSTODY

A & R Work Order #: 1907-256

Client Name: LOR Geotechnical Group, Inc.
E-mail:
Address:
Report Attention | Phone # / Fax: # | Sampled By
Project No./ Name: 33557.21 | Project Site: 875 W. Orange Grove Ave., Pomona

☐ Chilled ☐ Intact ☐ Seal

Turn Around Time Requested: ☐ Rush 8 12 24 48 Hours ☒ Normal

Analyses Requested

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6010B Pb	Remarks
16	SB-14A-5	7/26/19	1001	Soil	—	1G										X	
17	SB-14B-0		1000													X	
18	SB-14B-1		1004													X	
19	SB-14B-3		1006													X	
20	SB-14B-5		1010													X	
21	SB-14C-0		1013													X	
22	SB-14C-1		1014													X	
23	SB-14C-3		1016													X	
24	SB-14C-5		1020													X	
25	SB-15A-0		0758													X	
26	SB-15A-1		0801													X	
27	SB-15A-3		0806													X	
28	SB-15A-5		0811													X	
29	SB-15B-0		0757													X	
30	SB-15B-1		0800													X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Matthew Hunt	LOR	7/26/19	1609		A+R	7/26/19	1609
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

ARL

A & R Laboratories
1650 S. Grove Ave., Ste C, Ontario, CA 91761
Tel: 951-779-0310 / 909-781-6335 Fax: 951-779-0344
E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order #: 1907-256

Client Name: LOR Geotechnical Group, Inc.
E-mail:
Address:
Report Attention | Phone # / Fax: # | Sampled By

☐ Chilled ☐ Intact ☐ Seal

Project No./ Name: 33557.21
Project Site: 875 W. Orange Grove Ave., Pomona

Turn Around Time Requested: ☐ Rush 8 12 24 48 Hours ☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6010B Pb	Remarks
31	SB-15B-3	7/26/19	0819	Soil	—	1G										X	
32	SB-15C-0		0809													X	
33	SB-15C-1		0812													X	
34	SB-15C-3		0816													X	
35	SB-15C-5		0818													X	
36	SB-16A-0		0827													X	
37	SB-16A-1		0831													X	
38	SB-16A-3		0838													X	
39	SB-16A-5		0848													X	
40	SB-16B-0		0853													X	
41	SB-16B-1		0901													X	
42	SB-16B-3		0904													X	
43	SB-16B-4.5		0907													X	
44	SB-16C-0		0828													X	
45	SB-16C-1		0836													X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Matthew Hunt	LOR	7/26/19	1609		AOR	7/26/19	1609
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

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CHAIN OF CUSTODY

A & R Work Order #: 1907-256

Client Name: LOR Geotechnical Group, Inc.
E-mail:
Address:
Report Attention | Phone # / Fax: # | Sampled By

☐ Chilled ☐ Intact ☐ Seal

Project No./ Name: 33557.21
Project Site: 875 W. Orange Grove Ave., Pomona

Turn Around Time Requested: ☐ Rush 8 12 24 48 Hours ☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6010B Pb	Remarks
46	SB-16C-3	7/26/19	0847	Soil	—	1G										X	
47	SB-16C-4.5		0852													X	
48	SB-29A-0		1255													X	
49	SB-29A-1		1257													X	
50	SB-29A-3		1300													X	
51	SB-29A-5		1304													X	
52	SB-29B-0		1307													X	
53	SB-29B-1		1309													X	
54	SB-29B-3		1311													X	
55	SB-29B-4.5		1314													X	
56	SB-29C-0		1256													X	
57	SB-29C-1		1258													X	
58	SB-29C-3		1302													X	
59	SB-29C-5		1306													X	
60	SB-30A-0		1217													X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Matthew L'Heureux	LOR	7/26/19	1609		A+R	7/26/19	1609
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

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CHAIN OF CUSTODY

A & R Work Order #: 1907-256

Client Name: LOR Geotechnical Group, Inc.
E-mail:
Address:
Report Attention | Phone # / Fax: # | Sampled By
Project No./ Name: 33557.21
Project Site: 875 W. Orange Grove Ave., Pomona

☐ Chilled ☐ Intact ☐ Seal

Turn Around Time Requested: ☐ Rush 8 12 24 48 Hours ☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6010B Pb	Remarks
61	SB-30A-1	7/26/19	1219	Soil	—	1G										X	
62	SB-30A-3		1222													X	
63	SB-30A-5		1226													X	
64	SB-30B-0		1227													X	
65	SB-30B-1		1229													X	
66	SB-30B-3		1231													X	
67	SB-30B-5		1233													X	
68	SB-30C-0		1218													X	
69	SB-30C-1		1220													X	
70	SB-30C-3		1223													X	
71	SB-30C-5		1228													X	
72	SB-31A-0		0915													X	
73	SB-31A-1		0918													X	
74	SB-31A-3		0924													X	
75	SB-31A-5	↓	0929	↓	↓	↓										X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Matthew 2nd Hunt	LOR	7/26/19	1609		A&R	7/26/19	1609
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

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CHAIN OF CUSTODY

A & R Work Order #: 1907-256

Client Name: LOR Geotechnical Group, Inc.
E-mail:
Address:
Report Attention: | Phone #: | Fax: # | Sampled By:
Project No./ Name: 33557.21
Project Site: 875 W. Orange Grove Ave., Pomona

☐ Chilled
☐ Intact
☐ Seal

Turn Around Time Requested: ☐ Rush 8 12 24 48 Hours ☒ Normal

Analyses Requested

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6010B Pb						Remarks
76	SB-31B-0	7/26/19	0935	Soil	—	1G										X						
77	SB-31B-1	↓	0939	↓	↓	↓										X						
78	SB-31B-3	↓	0941	↓	↓	↓										X						
79	SB-31B-5	↓	0943	↓	↓	↓										X						
80	SB-31C-0	↓	0920	↓	↓	↓										X						
81	SB-31C-1	↓	0925	↓	↓	↓										X						
82	SB-31C-3	↓	0930	↓	↓	↓										X						
83	SB-31C-5	↓	0934	↓	↓	↓										X						

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	LOR	7/26/19	1609	[signature]	A+R	7/26/19	1609
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SD=Solid Waste, SL=Sludge, SS=Soil/Sediment, AR=Air, PP=Pure Product

Preservative Code: IC=Ice, HC=HCl, HN=HNO_3, SH=NaOH, ST=$Na_2S_2O_3$, HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag, G=Glass Container, ST= Steel Tube, B= Brass Tube, P=Plastic Bottle, V=VOA Vial, E= EnCore

ARL

Sample Acceptance Checklist

CLIENT: LOR GeoTech WORK ORDER NUMBER: 1907-256

Temperature:(Criteria:0.0°C-6.0°C)

Sample Temp.(w/CF) °C(w/CF) 4.8°C

☐ Sample(s) outside temprature criteria: PM contacted by :

☐ Sample(s) outside temprature criteria, but received on ice/chilled on same day of sampling.

☐ Sample(s) received at ambient temprature; placed on ice for transport by courier.

☐ Ambient Temprature ☐ Air ☐ Filter

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present and Not Intact ✓ Not Present

Sample(s) ☐ Present and Intact ☐ Present and Not Intact ✓ Not Present

Sample Condition:	Yes	No	N/A
Was a COC received	✓		
Were sample IDs present?	✓		
Were sampling dates & times present?	✓		
Was a relingquished signature present?	✓		
Were the tests required clearly indicated?	✓		
Were all samples sealed in plastic bags?			✓
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of samples sent for tests indicated?	✓		
Was there headspace in VOA vials?			✓
Were the containers labeled with correct preservatives?			✓

Explanations/Comments:

Notification:

For discrepancies, how was the Project Manager notified? Verbal

Verbal: PM Initials: _____ Data/Time: _____

Email: Send to: _____ Data/Time: _____

Project Manager's response:

Completed By: _____ Date: 7/26/19

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Email: office@arlaboratories.com

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FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

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FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CASE NARRATIVE

Authorized Signature Name / Title (print)	Ken Zheng, President
Signature / Date	Ken Zheng, President 08/02/2019 14:46:49
Laboratory Job No. (Certificate of Analysis No.)	1907-00268
Project Name / No.	875 W.ORANGE GROVE AVE.,POMONA 33557.21
Dates Sampled (from/to)	07/29/19 To 07/29/19
Dates Received (from/to)	07/29/19 To 07/29/19
Dates Reported (from/to)	08/02/19 To 8/2/2019
Chains of Custody Received	Yes

Comments:

Subcontracting

Inorganic Analyses

No analyses sub-contracted

Sample Condition(s)

All samples intact

Positive Results (Organic Compounds)

None

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USDA-EPA-NIOSH Testing Food Sanitation Consulting Chemical and Microbiological Analyses and Research

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CERTIFICATE OF ANALYSIS

1907-00268

LOR GEOTECHNICAL GROUP, INC.
KEVIN OSMUN
6121 QUAIL VALLEY COURT
RIVERSIDE, CA 92507

Date Reported	08/02/19
Date Received	07/29/19
Invoice No.	86427
Cust #	1422
Permit Number	
Customer P.O.	33557.21

Project: 875 W.ORANGE GROVE AVE.,POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 **SB-1A-0**					Date & Time Sampled:		07/29/19 @ 6:39	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**45.8**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 002 **SB-1A-1**					Date & Time Sampled:		07/29/19 @ 6:41	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**34.4**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 003 **SB-1A-3**					Date & Time Sampled:		07/29/19 @ 6:45	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**4.58**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 004 **SB-1A-5**					Date & Time Sampled:		07/29/19 @ 6:48	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**3.71**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 005 **SB-1B-0**					Date & Time Sampled:		07/29/19 @ 6:50	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**47.3**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 006 **SB-1B-1**					Date & Time Sampled:		07/29/19 @ 6:53	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**8.78**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB

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CERTIFICATE OF ANALYSIS

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KEVIN OSMUN
6121 QUAIL VALLEY COURT
RIVERSIDE, CA 92507

Date Reported	08/02/19
Date Received	07/29/19
Invoice No.	86427
Cust #	1422
Permit Number	
Customer P.O.	33557.21

Project: 875 W.ORANGE GROVE AVE.,POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 007 **SB-1B-3**					Date & Time Sampled:		07/29/19 @ 6:55	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**4.21**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 008 **SB-1B-5**					Date & Time Sampled:		07/29/19 @ 6:57	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**3.85**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 009 **SB-1C-0**					Date & Time Sampled:		07/29/19 @ 6:40	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**48.6**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 010 **SB-1C-1**					Date & Time Sampled:		07/29/19 @ 6:42	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**9.05**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 011 **SB-1C-3**					Date & Time Sampled:		07/29/19 @ 6:46	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**3.93**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 012 **SB-1C-5**					Date & Time Sampled:		07/29/19 @ 6:51	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**3.95**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB

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CERTIFICATE OF ANALYSIS

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Date Reported	08/02/19
Date Received	07/29/19
Invoice No.	86427
Cust #	1422
Permit Number	
Customer P.O.	33557.21

Project: 875 W.ORANGE GROVE AVE.,POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 013 **SB-2A-0**					Date & Time Sampled:		07/29/19 @ 7:03	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**33.5**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 014 **SB-2A-1**					Date & Time Sampled:		07/29/19 @ 7:07	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**15.8**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 015 **SB-2A-3**					Date & Time Sampled:		07/29/19 @ 7:13	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**4.13**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 016 **SB-2A-5**					Date & Time Sampled:		07/29/19 @ 7:19	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**4.56**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 017 **SB-2B-0**					Date & Time Sampled:		07/29/19 @ 7:04	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**35.9**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 018 **SB-2B-1**					Date & Time Sampled:		07/29/19 @ 7:06	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**14.5**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB

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Cust #	1422
Permit Number	
Customer P.O.	33557.21

Project: 875 W.ORANGE GROVE AVE.,POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 019 **SB-2B-3**					Date & Time Sampled:		07/29/19 @ 7:08	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**4.51**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 020 **SB-2B-5**					Date & Time Sampled:		07/29/19 @ 7:12	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**6.73**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 021 **SB-2C-0**					Date & Time Sampled:		07/29/19 @ 7:16	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**21.9**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 022 **SB-2C-1**					Date & Time Sampled:		07/29/19 @ 7:18	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**5.06**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 023 **SB-2C-3**					Date & Time Sampled:		07/29/19 @ 7:20	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**4.48**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 024 **SB-2C-5**					Date & Time Sampled:		07/29/19 @ 7:24	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**7.04**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB

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1907-00268

LOR GEOTECHNICAL GROUP, INC.
KEVIN OSMUN
6121 QUAIL VALLEY COURT
RIVERSIDE, CA 92507

Date Reported	08/02/19
Date Received	07/29/19
Invoice No.	86427
Cust #	1422
Permit Number	
Customer P.O.	33557.21

Project: 875 W.ORANGE GROVE AVE.,POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 025 **SB-3A-0**					Date & Time Sampled:		07/29/19 @ 7:46	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**44.0**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 026 **SB-3A-1**					Date & Time Sampled:		07/29/19 @ 7:49	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**16.5**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 027 **SB-3A-3**					Date & Time Sampled:		07/29/19 @ 7:52	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**4.47**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 028 **SB-3A-5**					Date & Time Sampled:		07/29/19 @ 7:58	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**4.21**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 029 **SB-3B-0**					Date & Time Sampled:		07/29/19 @ 7:57	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**34.8**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 030 **SB-3B-1**					Date & Time Sampled:		07/29/19 @ 7:59	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**8.61**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB

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Project: 875 W.ORANGE GROVE AVE.,POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 031 **SB-3B-3**					Date & Time Sampled:		07/29/19 @ 8:03	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**4.01**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 032 **SB-3B-5**					Date & Time Sampled:		07/29/19 @ 8:05	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**4.90**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 033 **SB-3C-0**					Date & Time Sampled:		07/29/19 @ 7:39	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**39.5**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 034 **SB-3C-1**					Date & Time Sampled:		07/29/19 @ 7:51	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**5.00**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 035 **SB-3C-3**					Date & Time Sampled:		07/29/19 @ 7:53	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**4.14**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 036 **SB-3C-5**					Date & Time Sampled:		07/29/19 @ 8:01	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**4.89**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB

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Project: 875 W.ORANGE GROVE AVE.,POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 037 **SB-4A-0**					Date & Time Sampled:		07/29/19 @ 8:36	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**44.8**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 038 **SB-4A-1**					Date & Time Sampled:		07/29/19 @ 8:38	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**13.2**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 039 **SB-4A-3**					Date & Time Sampled:		07/29/19 @ 8:43	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**5.05**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 040 **SB-4A-5**					Date & Time Sampled:		07/29/19 @ 8:49	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**4.41**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 041 **SB-4B-0**					Date & Time Sampled:		07/29/19 @ 8:46	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**36.2**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 042 **SB-4B-1**					Date & Time Sampled:		07/29/19 @ 8:48	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**19.7**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB

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Project: 875 W.ORANGE GROVE AVE.,POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 043 **SB-4B-3**					Date & Time Sampled:		07/29/19 @ 8:52	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**4.22**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 044 **SB-4B-5**					Date & Time Sampled:		07/29/19 @ 8:54	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**3.95**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 045 **SB-4C-0**					Date & Time Sampled:		07/29/19 @ 8:35	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**45.7**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 046 **SB-4C-1**					Date & Time Sampled:		07/29/19 @ 8:37	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**6.20**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 047 **SB-4C-3**					Date & Time Sampled:		07/29/19 @ 8:40	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**3.78**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 048 **SB-4C-5**					Date & Time Sampled:		07/29/19 @ 8:45	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**4.24**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 049 **SB-5A-0**					Date & Time Sampled:		07/29/19 @ 9:06	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**29.8**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 050 **SB-5A-1**					Date & Time Sampled:		07/29/19 @ 9:09	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**19.0**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 051 **SB-5A-3**					Date & Time Sampled:		07/29/19 @ 9:12	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**4.21**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 052 **SB-5A-5**					Date & Time Sampled:		07/29/19 @ 9:16	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**4.13**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 053 **SB-5B-0**					Date & Time Sampled:		07/29/19 @ 9:17	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**47.9**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 054 **SB-5B-1**					Date & Time Sampled:		07/29/19 @ 9:20	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**17.1**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 055 **SB-5B-3**					Date & Time Sampled:		07/29/19 @ 9:24	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**4.25**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 056 **SB-5B-5**					Date & Time Sampled:		07/29/19 @ 9:26	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**16.0**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 057 **SB-5C-0**					Date & Time Sampled:		07/29/19 @ 9:07	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**49.4**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 058 **SB-5C-1**					Date & Time Sampled:		07/29/19 @ 9:10	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**5.76**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 059 **SB-5C-3**					Date & Time Sampled:		07/29/19 @ 9:14	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**4.09**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 060 **SB-5C-5**					Date & Time Sampled:		07/29/19 @ 9:21	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**7.57**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB

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Project: 875 W.ORANGE GROVE AVE.,POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 061 **SB-6A-0**					Date & Time Sampled:		07/29/19 @ 12:50	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**94.2**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 062 **SB-6A-1**					Date & Time Sampled:		07/29/19 @ 12:52	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**22.7**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 063 **SB-6A-3**					Date & Time Sampled:		07/29/19 @ 12:57	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**4.42**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 064 **SB-6A-4.5**					Date & Time Sampled:		07/29/19 @ 13:02	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**24.2**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 065 **SB-6B-0**					Date & Time Sampled:		07/29/19 @ 13:04	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**104**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 066 **SB-6B-1**					Date & Time Sampled:		07/29/19 @ 13:07	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**65.0**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB

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1907-00268

LOR GEOTECHNICAL GROUP, INC.
KEVIN OSMUN
6121 QUAIL VALLEY COURT
RIVERSIDE, CA 92507

Date Reported	08/02/19
Date Received	07/29/19
Invoice No.	86427
Cust #	1422
Permit Number	
Customer P.O.	33557.21

Project: 875 W.ORANGE GROVE AVE.,POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 067 **SB-6B-3**					Date & Time Sampled:		07/29/19 @ 13:12	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**4.35**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 068 **SB-6B-5**					Date & Time Sampled:		07/29/19 @ 13:15	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**4.68**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 069 **SB-6C-0**					Date & Time Sampled:		07/29/19 @ 12:47	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**89.7**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 070 **SB-6C-1**					Date & Time Sampled:		07/29/19 @ 12:51	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**76.0**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 071 **SB-6C-3**					Date & Time Sampled:		07/29/19 @ 12:55	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**4.42**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 072 **SB-6C-5**					Date & Time Sampled:		07/29/19 @ 13:03	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**4.40**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB

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Project: 875 W.ORANGE GROVE AVE.,POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 073 **SB-7A-0**					Date & Time Sampled:		07/29/19 @ 11:38	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**78.9**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 074 **SB-7A-1**					Date & Time Sampled:		07/29/19 @ 11:43	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**39.2**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 075 **SB-7A-3**					Date & Time Sampled:		07/29/19 @ 11:47	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**5.03**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 076 **SB-7A-4.5**					Date & Time Sampled:		07/29/19 @ 11:58	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**21.8**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 077 **SB-7B-0**					Date & Time Sampled:		07/29/19 @ 11:39	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**85.9**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 078 **SB-7B-1**					Date & Time Sampled:		07/29/19 @ 11:44	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**6.48**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB

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Project: 875 W.ORANGE GROVE AVE.,POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 079 **SB-7B-3**					Date & Time Sampled:		07/29/19 @ 11:49	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**5.99**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 080 **SB-7B-4.5**					Date & Time Sampled:		07/29/19 @ 11:56	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**7.40**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 081 **SB-7C-0**					Date & Time Sampled:		07/29/19 @ 12:01	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**171**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 082 **SB-7C-1**					Date & Time Sampled:		07/29/19 @ 12:03	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**11.2**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 083 **SB-7C-3**					Date & Time Sampled:		07/29/19 @ 12:06	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**3.97**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 084 **SB-7C-4.5**					Date & Time Sampled:		07/29/19 @ 12:08	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**34.0**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB

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Project: 875 W.ORANGE GROVE AVE.,POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 085 **SB-9A-0**					Date & Time Sampled:		07/29/19 @ 9:38	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**37.5**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 086 **SB-9A-1**					Date & Time Sampled:		07/29/19 @ 9:40	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**27.4**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 087 **SB-9A-3**					Date & Time Sampled:		07/29/19 @ 9:42	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**3.85**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 088 **SB-9A-5**					Date & Time Sampled:		07/29/19 @ 9:49	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**3.73**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 089 **SB-9B-0**					Date & Time Sampled:		07/29/19 @ 9:46	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**50.3**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 090 **SB-9B-1**					Date & Time Sampled:		07/29/19 @ 9:48	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**7.01**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB

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Project: 875 W.ORANGE GROVE AVE.,POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 091 **SB-9B-3**					Date & Time Sampled:		07/29/19 @ 9:50	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**3.39**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 092 **SB-9B-5**					Date & Time Sampled:		07/29/19 @ 9:57	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**6.58**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 093 **SB-9C-0**					Date & Time Sampled:		07/29/19 @ 9:55	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**48.9**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 094 **SB-9C-1**					Date & Time Sampled:		07/29/19 @ 9:58	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**5.44**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 095 **SB-9C-3**					Date & Time Sampled:		07/29/19 @ 10:01	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**3.84**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 096 **SB-9C-5**					Date & Time Sampled:		07/29/19 @ 10:02	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**3.51**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB

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Project: 875 W.ORANGE GROVE AVE.,POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 097 **SB-12A-0**					Date & Time Sampled:		07/29/19 @ 12:24	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**56.1**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 098 **SB-12A-1**					Date & Time Sampled:		07/29/19 @ 12:26	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**49.3**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 099 **SB-12A-3**					Date & Time Sampled:		07/29/19 @ 12:31	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**4.33**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 100 **SB-12A-5**					Date & Time Sampled:		07/29/19 @ 12:37	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**4.05**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 101 **SB-12B-0**					Date & Time Sampled:		07/29/19 @ 12:34	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**55.3**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 102 **SB-12B-1**					Date & Time Sampled:		07/29/19 @ 12:39	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**16.6**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 103 **SB-12B-3**					Date & Time Sampled:		07/29/19 @ 12:41	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**4.00**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 104 **SB-12B-5**					Date & Time Sampled:		07/29/19 @ 12:43	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**3.31**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 105 **SB-12C-0**					Date & Time Sampled:		07/29/19 @ 12:14	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**55.4**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 106 **SB-12C-1**					Date & Time Sampled:		07/29/19 @ 12:18	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**40.2**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 107 **SB-12C-3**					Date & Time Sampled:		07/29/19 @ 12:27	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**3.72**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB
Sample: 108 **SB-12C-5**					Date & Time Sampled:		07/29/19 @ 12:33	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/02/19	TLB
Lead	**3.45**		mg/Kg	EPA 6010B	1.0	0.500	08/02/19	TLB

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Respectfully Submitted: Ken Zheng

Ken Zheng - Lab Director

QUALIFIERS

B = Detected in the associated Method Blank at a concentration above the routine RL.
B1 = BOD dilution water is over specifications . The reported result may be biased high.
D = Surrogate recoveries are not calculated due to sample dilution.
E = Estimated value; Value exceeds calibration level of instrument.
H = Analyte was prepared and/or analyzed outside of the analytical method holding time
I = Matrix Interference.
J = Analyte concentration detected between RL and MDL.
Q = One or more quality control criteria did not meet specifications. See Comments for further explanation.
S = Customer provided specification limit exceeded.

ABBREVIATIONS

DF = Dilution Factor
RL = Reporting Limit, Adjusted by DF
MDL = Method Detection Limit, Adjusted by DF
Qual = Qualifier
Tech = Technician

As regulatory limits change frequently, A & R Laboratories advises the recipient of this report to confirm such limits with the appropriate federal, state, or local authorities before acting in reliance on the regulatory limits provided.

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.

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USDA-EPA-NIOSH Testing Food Sanitation Consulting Chemical and Microbiological Analyses and Research

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
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FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

QUALITY CONTROL DATA REPORT

LOR GEOTECHNICAL GROUP, INC.
RIVERSIDE, CA 92507

1907-00268

Date Reported	**08/02/2019**
Date Received	**07/29/2019**
Date Sampled	**07/29/2019**
Invoice No.	**86427**
Customer #	**1422**
Customer P.O.	**33557.21**

Project: 875 W.ORANGE GROVE AVE.,POMONA

Method # EPA 6010B

QC Reference # 83573 **Date Analyzed:** 8/2/2019 **Technician:** TLB

Samples 001 002 003 004 005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Lead	99	100	0.5	76	89	4.8

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 20	0 - 20

QC Reference # 83574 **Date Analyzed:** 8/2/2019 **Technician:** TLB

Samples 021 022 023 024 025 026 027 028 029 030 031 032 033 034 035 036 037 038 039 040

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Lead	105	104	0.9	77	82	2.9

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 20	0 - 20

QC Reference # 83575 **Date Analyzed:** 8/2/2019 **Technician:** TLB

Samples 041 042 043 044 045 046 047 048 049 050 051 052 053 054 055 056 057 058 059 060

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Lead	100	100	0.0	99	102	3.7

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 20	0 - 20

QC Reference # 83576 **Date Analyzed:** 8/2/2019 **Technician:** TLB

Samples 061 062 063 064 065 066 067 068 069 070 071 072 073 074 075 076 077 078 079 080

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Lead	100	100	0.2	101	102	1.2

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 20	0 - 20

QC Reference # 83578 **Date Analyzed:** 8/2/2019 **Technician:** TLB

Samples 081 082 083 084 085 086 087 088 089 090 091 092 093 094 095 096 097 098 099 100

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Lead	100	100	0.2	105	109	2.0

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 20	0 - 20

QC Reference # 83579 **Date Analyzed:** 8/2/2019 **Technician:** TLB

Samples 101 102 103 104 105 106 107 108

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Lead	101	102	0.8	76	79	3.2

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 20	0 - 20

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FDA#	2030513
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ELAP#'s	2789
	2790
	2122

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FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

QUALITY CONTROL DATA REPORT

1907-00268

LOR GEOTECHNICAL GROUP, INC.

Date Reported	**08/02/2019**
Date Received	**07/29/2019**
Date Sampled	**07/29/2019**

Project: 875 W.ORANGE GROVE AVE.,POMONA

No method blank results were above reporting limit

Respectfully Submitted: Ken Zheng

Ken Zheng - President

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.

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Tel: 951-779-0310 / 909-781-6335 Fax: 951-779-0344
E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order #: 1907-268

Client Name: LOR Geotechnical Group, Inc.
E-mail: mhunt@lorgeo.com
Address: 6121 Quail Valley Court, Riverside, CA 92507
Report Attention: Mathew L. Hunt | Phone #: 951-653-1760 | Fax #: 951-653-1741
Sampled By: Mathew L. Hunt
Project No./ Name: 33557.21
Project Site: 875 W. Orange Grove Ave., Pomona

☒ Chilled ☒ Intact ☐ Seal

Analyses Requested

Turn Around Time Requested: ☐ Rush 8 12 24 48 Hours ☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6010B Pb	Remarks
1	SB-1A-0	7/29/19	0639	Soil	—	1G										X	
2	SB-1A-1		0641													X	
3	SB-1A-3		0645													X	
4	SB-1A-5		0648													X	
5	SB-1B-0		0650													X	
6	SB-1B-1		0653													X	
7	SB-1B-3		0655													X	
8	SB-1B-5		0657													X	
9	SB-1C-0		0640													X	
10	SB-1C-1		0642													X	
11	SB-1C-3		0646													X	
12	SB-1C-5		0651													X	
13	SB-2A-0		0703													X	
14	SB-2A-1		0707													X	
15	SB-2A-3		0713													X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Mathew L Hunt	LOR	7/29/19	1636		A&R	7/29/19	1636
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

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Tel: 951-779-0310 / 909-781-6335 Fax: 951-779-0344
E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order #: 1907-268

Client Name: LOR Geotechnical Group, Inc.
E-mail:
Address:
Report Attention | Phone # / Fax: # | Sampled By:
Project No./ Name: 33557.21
Project Site: 875 W. Orange Grove Ave., Pomona

☒ Chilled ☒ Intact ☐ Seal

Turn Around Time Requested: ☐ Rush 8 12 24 48 Hours ☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6010B Pb	Remarks
16	SB-2A-5	7/29/19	0719	Soil	—	1G										X	
17	SB-2B-0		0704													X	
18	SB-2B-1		0706													X	
19	SB-2B-3		0708													X	
20	SB-2B-5		0712													X	
21	SB-2C-0		0716													X	
22	SB-2C-1		0718													X	
23	SB-2C-3		0720													X	
24	SB-2C-5		0724													X	
25	SB-3A-0		0746													X	
26	SB-3A-1		0749													X	
27	SB-3A-3		0752													X	
28	SB-3A-5		0758													X	
29	SB-3B-0		0757													X	
30	SB-3B-1		0759													X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	LOR	7/29/19	1636	[signature]	A+R	7/29/19	1636
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

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Tel: 951-779-0310 / 909-781-6335 Fax: 951-779-0344
E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order #: 1907-268

Client Name: LOR Geotechnical Group, Inc.
E-mail:
Address:
Report Attention: | Phone #: | Fax: # | Sampled By:
Project No./ Name: 33557.21
Project Site: 875 W. Orange Grove Ave., Pomona

☒ Chilled ☒ Intact ☐ Seal

Turn Around Time Requested: ☐ Rush 8 12 24 48 Hours ☒ Normal

Analyses Requested

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6010B Pb	Remarks
31	SB-3B-3	7/29/19	0803	Soil	—	1G										X	
32	SB-3B-5		0805													X	
33	SB-3C-0		0739													X	
34	SB-3C-1		0751													X	
35	SB-3C-3		0753													X	
36	SB-3C-5		0801													X	
37	SB-4A-0		0836													X	
38	SB-4A-1		0838													X	
39	SB-4A-3		0843													X	
40	SB-4A-5		0849													X	
41	SB-4B-0		0846													X	
42	SB-4B-1		0848													X	
43	SB-4B-3		0852													X	
44	SB-4B-5		0854													X	
45	SB-4C-0	↓	0835	↓	↓	↓										X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Matthew Hunt	LOR	7/29/19	1636		A+R	7/29/19	1636
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

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E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order #: 1907-268

Client Name: LOR Geotechnical Group, Inc.
E-mail:
Address:
Report Attention: | Phone #: | Fax: # | Sampled By:
Project No./ Name: 33557.21 | Project Site: 875 W. Orange Grove Ave., Pomona

☒ Chilled ☒ Intact ☐ Seal

Turn Around Time Requested: ☐ Rush 8 12 24 48 Hours ☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6010B Pb	Remarks
46	SB-4C-1	7/29/19	0837	Soil	—	1 G										X	
47	SB-4C-3		0840													X	
48	SB-4C-5		0845													X	
49	SB-5A-0		0906													X	
50	SB-5A-1		0909													X	
51	SB-5A-3		0912													X	
52	SB-5A-5		0916													X	
53	SB-5B-0		0917													X	
54	SB-5B-1		0920													X	
55	SB-5B-3		0924													X	
56	SB-5B-5		0926													X	
57	SB-5C-0		0907													X	
58	SB-5C-1		0910													X	
59	SB-5C-3		0914													X	
60	SB-5C-5		0921													X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Matthew Hurst	LOR	7/29/19	1636	[signature]	A+R	7/29/19	1636
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SD=Solid Waste, SL=Sludge, SS=Soil/Sediment, AR=Air, PP=Pure Product

Preservative Code: IC=Ice, HC=HCl, HN=HNO_3, SH=NaOH, ST=$Na_2S_2O_3$, HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag, G=Glass Container, ST= Steel Tube, B= Brass Tube, P=Plastic Bottle, V=VOA Vial, E= EnCore

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CHAIN OF CUSTODY

A & R Work Order #: 1907-268

Client Name: LOR Geotechnical Group, Inc.
E-mail:
Address:
Report Attention | Phone # / Fax: # | Sampled By

☒ Chilled ☒ Intact ☐ Seal

Project No./ Name: 33557.21
Project Site: 825 W. Orange Grove Ave., Pomona

Turn Around Time Requested: ☐ Rush 8 12 24 48 Hours ☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6010B Pb	Remarks
61	SB-6A-0	7/29/19	1250	Soil	—	1G										X	
62	SB-6A-1		1252													X	
63	SB-6A-3		1257													X	
64	SB-6A-4.5		1302													X	
65	SB-6B-0		1304													X	
66	SB-6B-1		1307													X	
67	SB-6B-3		1312													X	
68	SB-6B-5		1315													X	
69	SB-6C-0		1247													X	
70	SB-6C-1		1251													X	
71	SB-6C-3		1255													X	
72	SB-6C-5		1303													X	
73	SB-7A-0		1138													X	
74	SB-7A-1		1143													X	
75	SB-7A-3		1147													X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Matthew Hunt	LOR	7/29/19	1636		A+R	7/29/19	1636
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

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CHAIN OF CUSTODY

A & R Work Order #: 1907-268

Client Name: LOR Geotechnical Group, Inc.
E-mail:
Address:
Report Attention | Phone # / Fax: # | Sampled By

☒ Chilled ☒ Intact ☐ Seal

Project No./ Name: 33557.21
Project Site: 875 W. Orange Grove Ave., Pomona

Turn Around Time Requested: ☐ Rush 8 12 24 48 Hours ☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6010B Pb	Remarks
76	SB-7A-4.5	7/29/19	1158	Soil	—	1 G										X	
77	SB-7B-0		1139													X	
78	SB-7B-1		1144													X	
79	SB-7B-3		1149													X	
80	SB-7B-4.5		1156													X	
81	SB-7C-0		1201													X	
82	SB-7C-1		1203													X	
83	SB-7C-3		1206													X	
84	SB-7C-4.5		1208													X	
85	SB-9A-0		0938													X	
86	SB-9A-1		0940													X	
87	SB-9A-3		0942													X	
88	SB-9A-5		0949													X	
89	SB-9B-0		0946													X	
90	SB-9B-1		0948													X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Matthew L Hunt	LOR	7/29/19	1636		A+R	7/29/19	1636
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

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E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order #: 1907-268

Client Name: LOR Geotechnical Group, Inc.
E-mail:
Address:
Report Attention | Phone # / Fax: # | Sampled By

☒ Chilled ☒ Intact ☐ Seal

Project No./ Name: 33557.21
Project Site: 875 W. Orange Grove Ave., Pomona

Analyses Requested

Turn Around Time Requested
☐ Rush 8 12 24 48 Hours
☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6010B Pb	Remarks
91	SB-9B-3	7/29/19	0950	Soil	—	1 G										X	
92	SB-9B-5		0957													X	
93	SB-9C-0		0955													X	
94	SB-9C-1		0958													X	
95	SB-9C-3		1001													X	
96	SB-9C-5		1002													X	
97	SB-12A-0		1224													X	
98	SB-12A-1		1226													X	
99	SB-12A-3		1231													X	
100	SB-12A-5		1237													X	
101	SB-12B-0		1234													X	
102	SB-12B-1		1239													X	
103	SB-12B-3		1241													X	
104	SB-12B-5		1243													X	
105	SB-12C-0		1214													X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Nicholas L'Heureux	LOR	7/29/19	1636		AR	7/29/19	1636
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

ARL

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E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order #: 1907-268

Client Name: LOR Geotechnical Group, Inc.
E-mail:
Address:
Report Attention | Phone # / Fax: # | Sampled By:
Project No./ Name: 33557.21
Project Site: 875 W. Orange Grove Ave., Pomona

☒ Chilled ☒ Intact ☐ Seal

Turn Around Time Requested
☐ Rush 8 12 24 48 Hours
☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6010B Pb	Remarks
106	SB-12C-1	7/29/19	1218	Soil	—	1G										X	
107	SB-12C-3	↓	1227	↓	↓	↓										X	
108	SB-12C-5	↓	1233	↓	↓	↓										X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Walter L Hunt	LOR	7/29/19	1636	[signature]	A+R	7/29/19	1636
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

ARL

Sample Acceptance Checklist

CLIENT: LOR Geotech WORK ORDER NUMBER: 1907-268

Temperature:(Criteria:0.0°C-6.0°C)

Sample Temp.(w/CF) °C(w/CF) 5.4°C

☐ Sample(s) outside temprature criteria: PM contacted by :

☐ Sample(s) outside temprature criteria, but received on ice/chilled on same day of sampling.

☐ Sample(s) received at ambient temprature; placed on ice for transport by courier.

Ambient Temprature ☐ Air ☐ Filter

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present and Not Intact	✓ Not Present	
Sample(s)	☐ Present and Intact	☐ Present and Not Intact	✓ Not Present	

Sample Condition:	Yes	No	N/A
Was a COC received	✓		
Were sample IDs present?	✓		
Were sampling dates & times present?	✓		
Was a relingquished signature present?	✓		
Were the tests required clearly indicated?	✓		
Were all samples sealed in plastic bags?			✓
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of samples sent for tests indicated?	✓		
Was there headspace in VOA vials?			✓
Were the containers labeled with correct preservatives?			✓

Explanations/Comments:

Notification:

For discrepancies, how was the Project Manager notified? Verbal

Verbal: PM Initials: _____ Data/Time: _____

Email: Send to: _____ Data/Time: _____

Project Manager's response:

Completed By: _____ Date: 7/29/19

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CASE NARRATIVE

Authorized Signature Name / Title (print)	Ken Zheng, President
Signature / Date	Ken Zheng, President 08/05/2019 19:05:34
Laboratory Job No. (Certificate of Analysis No.)	1907-00276
Project Name / No.	875 W. ORANGE GROVE AVE., POMONA 33557.21
Dates Sampled (from/to)	07/30/19 To 07/30/19
Dates Received (from/to)	07/30/19 To 07/30/19
Dates Reported (from/to)	08/05/19 To 8/5/2019
Chains of Custody Received	Yes

Comments:

Subcontracting

Inorganic Analyses

No analyses sub-contracted

Sample Condition(s)

All samples intact

Positive Results (Organic Compounds)

None

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CERTIFICATE OF ANALYSIS

1907-00276

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MATHEW HUNT
6121 QUAIL VALLEY COURT
RIVERSIDE, CA 92507

Date Reported	08/05/19
Date Received	07/30/19
Invoice No.	86444
Cust #	1422
Permit Number	
Customer P.O.	33557.21

Project: 875 W. ORANGE GROVE AVE., POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 **SB-8A-0**					Date & Time Sampled:		07/30/19 @ 8:19	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**141**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 002 **SB-8A-1**					Date & Time Sampled:		07/30/19 @ 8:22	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**31.4**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 003 **SB-8A-3**					Date & Time Sampled:		07/30/19 @ 8:26	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**8.66**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 004 **SB-8A-5**					Date & Time Sampled:		07/30/19 @ 8:34	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**38.6**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 005 **SB-8B-0**					Date & Time Sampled:		07/30/19 @ 8:36	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**105**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 006 **SB-8B-1**					Date & Time Sampled:		07/30/19 @ 8:46	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**7.89**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 007 **SB-8B-3**					Date & Time Sampled:		07/30/19 @ 8:50	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**7.36**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 008 **SB-8B-5**					Date & Time Sampled:		07/30/19 @ 8:52	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**17.8**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 009 **SB-8C-0**					Date & Time Sampled:		07/30/19 @ 8:23	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**156**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 010 **SB-8C-1**					Date & Time Sampled:		07/30/19 @ 8:27	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**18.1**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 011 **SB-8C-3**					Date & Time Sampled:		07/30/19 @ 8:35	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**6.43**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 012 **SB-8C-5**					Date & Time Sampled:		07/30/19 @ 8:41	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**11.5**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 013 **SB-10A-0**					Date & Time Sampled:		07/30/19 @ 9:10	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**147**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 014 **SB-10A-1**					Date & Time Sampled:		07/30/19 @ 9:15	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**56.5**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 015 **SB-10A-3**					Date & Time Sampled:		07/30/19 @ 9:23	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**8.17**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 016 **SB-10A-5**					Date & Time Sampled:		07/30/19 @ 9:30	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**26.3**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 017 **SB-10B-0**					Date & Time Sampled:		07/30/19 @ 9:26	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**83.0**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 018 **SB-10B-1**					Date & Time Sampled:		07/30/19 @ 9:28	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**24.5**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB

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Project: 875 W. ORANGE GROVE AVE., POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 019 **SB-10B-3**					Date & Time Sampled:		07/30/19 @ 9:32	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**8.02**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 020 **SB-10B-5**					Date & Time Sampled:		07/30/19 @ 9:35	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**9.25**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 021 **SB-10C-0**					Date & Time Sampled:		07/30/19 @ 9:11	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**83.6**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 022 **SB-10C-1**					Date & Time Sampled:		07/30/19 @ 9:14	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**32.6**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 023 **SB-10C-3**					Date & Time Sampled:		07/30/19 @ 9:19	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**29.5**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 024 **SB-10C-5**					Date & Time Sampled:		07/30/19 @ 9:25	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**14.1**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB

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Project: 875 W. ORANGE GROVE AVE., POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 025 **SB-11A-0**					Date & Time Sampled:		07/30/19 @ 7:32	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**131**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 026 **SB-11A-1**					Date & Time Sampled:		07/30/19 @ 7:38	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**16.6**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 027 **SB-11A-3**					Date & Time Sampled:		07/30/19 @ 7:44	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**9.33**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 028 **SB-11A-4.5**					Date & Time Sampled:		07/30/19 @ 7:56	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**18.6**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 029 **SB-11B-0**					Date & Time Sampled:		07/30/19 @ 8:00	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**104**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 030 **SB-11B-1**					Date & Time Sampled:		07/30/19 @ 8:08	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**15.4**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB

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Project: 875 W. ORANGE GROVE AVE., POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 031 **SB-11B-3**					Date & Time Sampled:		07/30/19 @ 8:12	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**7.96**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 032 **SB-11B-5**					Date & Time Sampled:		07/30/19 @ 8:12	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**8.17**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 033 **SB-11C-0**					Date & Time Sampled:		07/30/19 @ 8:12	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**111**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 034 **SB-11C-1**					Date & Time Sampled:		07/30/19 @ 8:12	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**50.8**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 035 **SB-11C-3**					Date & Time Sampled:		07/30/19 @ 8:12	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**38.2**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB
Sample: 036 **SB-11C-5**					Date & Time Sampled:		07/30/19 @ 8:12	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/05/19	TLB
Lead	**7.62**		mg/Kg	EPA 6010B	1.0	0.500	08/05/19	TLB

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FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

Respectfully Submitted: Ken Zheng

Ken Zheng - Lab Director

QUALIFIERS

B = Detected in the associated Method Blank at a concentration above the routine RL.
B1 = BOD dilution water is over specifications . The reported result may be biased high.
D = Surrogate recoveries are not calculated due to sample dilution.
E = Estimated value; Value exceeds calibration level of instrument.
H = Analyte was prepared and/or analyzed outside of the analytical method holding time
I = Matrix Interference.
J = Analyte concentration detected between RL and MDL.
Q = One or more quality control criteria did not meet specifications. See Comments for further explanation.
S = Customer provided specification limit exceeded.

ABBREVIATIONS

DF = Dilution Factor
RL = Reporting Limit, Adjusted by DF
MDL = Method Detection Limit, Adjusted by DF
Qual = Qualifier
Tech = Technician

As regulatory limits change frequently, A & R Laboratories advises the recipient of this report to confirm such limits with the appropriate federal, state, or local authorities before acting in reliance on the regulatory limits provided.

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.

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USDA-EPA-NIOSH Testing Food Sanitation Consulting Chemical and Microbiological Analyses and Research

A & R Laboratories, Inc.

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FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
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QUALITY CONTROL DATA REPORT

LOR GEOTECHNICAL GROUP, INC.
RIVERSIDE, CA 92507

1907-00276

Date Reported	**08/05/2019**
Date Received	**07/30/2019**
Date Sampled	**07/30/2019**
Invoice No.	**86444**
Customer #	**1422**
Customer P.O.	**33557.21**

Project: 875 W. ORANGE GROVE AVE., POMONA

Method # EPA 6010B

QC Reference # 83617 **Date Analyzed:** 8/5/2019 **Technician:** TLB

Samples 001 002 003 004 005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Lead	100	100	0.5	80	94	3.7

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 20	0 - 20

QC Reference # 83618 **Date Analyzed:** 8/5/2019 **Technician:** TLB

Samples 021 022 023 024 025 026 027 028 029 030 031 032 033 034 035 036

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Lead	101	104	2.8	77	83	2.4

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 20	0 - 20

No method blank results were above reporting limit

Respectfully Submitted: Ken Zheng

Ken Zheng - President

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ARL

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1650 S. Grove Ave., Ste C, Ontario, CA 91761
Tel: 951-779-0310 / 909-781-6335 Fax: 951-779-0344
E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order #: 1907-276

Client Name: LOR Geotechnical Group, Inc.
E-mail: mhunt@lorgeo.com
Address: 6121 Quail Valley Court, Riverside, CA 92507
Report Attention: Mathew L. Hunt
Phone #: 951-653-1760
Fax: # 951-653-1741
Sampled By: Mathew L. Hunt
Project No./ Name: 33557.21
Project Site: 875 W. Orange Grove Ave., Pomona

☒ Chilled
☒ Intact
☐ Seal

Turn Around Time Requested: ☐ Rush 8 12 24 48 Hours ☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6010B Pb	Remarks
1	SB-8A-0	7/30/19	0819	Soil	—	1G										X	
2	SB-8A-1		0822													X	
3	SB-8A-3		0826													X	
4	SB-8A-5		0834													X	
5	SB-8B-0		0836													X	
6	SB-8B-1		0846													X	
7	SB-8B-3		0850													X	
8	SB-8B-5		0852													X	
9	SB-8C-0		0823													X	
10	SB-8C-1		0827													X	
11	SB-8C-3		0835													X	
12	SB-8C-5		0841													X	
13	SB-10A-0		0910													X	
14	SB-10A-1		0915													X	
15	SB-10A-3		0923													X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Mathew L Hunt	LOR	7/30/19	1352			7/30	13:52
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

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E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order #: 1907-276

Client Name: LOR Geotechnical Group, Inc.
E-mail:
Address:
Report Attention | Phone # / Fax: # | Sampled By
Project No./ Name: 33557.21 | Project Site: 875 W. Orange Grove Ave., Pomona

☐ Chilled ☐ Intact ☐ Seal

Turn Around Time Requested: ☐ Rush 8 12 24 48 Hours ☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6010B Pb	Remarks
16	SB-10A-5	7/30/19	0930	Soil	—	1 G										X	
17	SB-10B-0		0926													X	
18	SB-10B-1		0928													X	
19	SB-10B-3		0932													X	
20	SB-10B-5		0935													X	
21	SB-10C-0		0911													X	
22	SB-10C-1		0914													X	
23	SB-10C-3		0919													X	
24	SB-10C-5		0925													X	
25	SB-11A-0		0732													X	
26	SB-11A-1		0738													X	
27	SB-11A-3		0744													X	
28	SB-11A-4.5		0756													X	
29	SB-11B-0		0800													X	
30	SB-11B-1	↓	0808	↓	↓	↓										X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Matthew L Blunt	LOR	7/30/19	1352			7/30	13:52
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

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E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order #: 1907-276

Client Name: LOR Geotechnical Group, Inc.
E-mail:
Address:
Report Attention | Phone # / Fax: # | Sampled By
Project No./ Name: 33557.21
Project Site: 875 W. Orange Grove Ave., Pomona

☐ Chilled ☐ Intact ☐ Seal

Turn Around Time Requested: ☐ Rush 8 12 24 48 Hours ☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 6010B Pb	Remarks
31	SB-11B-3	7/30/19	0812	Soil	—	1G										X	
32	SB-11B-5															X	
33	SB-11C-0															X	
34	SB-11C-1															X	
35	SB-11C-3															X	
36	SB-11C-5															X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Matthew Hunt	LOR	7/30/19	1352			7/30	13:52
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

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Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

ARL

Sample Acceptance Checklist

CLIENT: LOR Geotech WORK ORDER NUMBER: 1907-276

Temperature:(Criteria:0.0°C-6.0°C)

Sample Temp.(w/CF) °C(w/CF) 4.6°C

☐ Sample(s) outside temprature criteria: PM contacted by :

☐ Sample(s) outside temprature criteria, but received on ice/chilled on same day of sampling.

☐ Sample(s) received at ambient temprature; placed on ice for transport by courier.

Ambient Temprature | Air | ☐ | Filter

CUSTODY SEAL:

Cooler	☐	Present and Intact	☐	Present and Not Intact	✓	Not Present
Sample(s)	☐	Present and Intact	☐	Present and Not Intact	✓	Not Present

Sample Condition:	Yes	No	N/A
Was a COC received	✓		
Were sample IDs present?	✓		
Were sampling dates & times present?	✓		
Was a relingquished signature present?	✓		
Were the tests required clearly indicated?	✓		
Were all samples sealed in plastic bags?			✓
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of samples sent for tests indicated?	✓		
Was there headspace in VOA vials?			✓
Were the containers labeled with correct preservatives?			✓

Explanations/Comments:

Notification:

For discrepancies, how was the Project Manager notified? Verbal

Verbal: PM Initials: _____ Data/Time: _____

Email: Send to: _____ Data/Time: _____

Project Manager's response:

Completed By: [signature] Date: 7/30/19

A R Laboratories
1650 S. Grove Ave., Suite C, Ontario, CA 91761
PH: 951-779-0310 Fax: 951-779-0344
Email: office@arlaboratories.com

APPENDIX I

Laboratory Analytical Report for Investigative-Derived Waste Characterization and Non-Hazardous Waste Manifest

DRAFT

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CASE NARRATIVE

Authorized Signature Name / Title (print)	Ken Zheng, President
Signature / Date	Ken Zheng, President 08/02/2019 10:39:10
Laboratory Job No. (Certificate of Analysis No.)	1907-00272
Project Name / No.	875 W. ORANGE GROVE AVE.,POMONA 33557.21
Dates Sampled (from/to)	07/30/19 To 07/30/19
Dates Received (from/to)	07/30/19 To 07/30/19
Dates Reported (from/to)	08/02/19 To 8/2/2019
Chains of Custody Received	Yes

Comments:

Subcontracting

Organic Analyses

No analyses sub-contracted

Inorganic Analyses

No analyses sub-contracted

Sample Condition(s)

All samples intact

Positive Results (Organic Compounds)

Sample	Analyte	Result	Qual	Units	RL	Sample	Analyte	Result	Qual	Units	RL
WATER DRUM	Naphthalene	**75**		µg/L	2.5	WATER DRUM	o-Xylene	**2.5**		µg/L	2.5

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CERTIFICATE OF ANALYSIS

1907-00272

LOR GEOTECHNICAL GROUP, INC.
KEVIN OSMUN
6121 QUAIL VALLEY COURT
RIVERSIDE, CA 92507

Date Reported	08/02/19
Date Received	07/30/19
Invoice No.	86426
Cust #	1422
Permit Number	
Customer P.O.	33557.21

Project: 875 W. ORANGE GROVE AVE.,POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 **WATER DRUM**					Date & Time Sampled:		07/30/19 @ 10:15	
Sample Matrix: **Aqueous**								
[TPH Gasoline]								
Gasoline (C4-C12)	<250		ug/L	EPA 8015B	5.0	250	07/31/19	AL
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3510C	1.0		07/30/19	AL
C13-C22	<0.40		mg/L	EPA 8015B	1.0	0.40	07/30/19	AL
C23-C40	<0.80		mg/L	EPA 8015B	1.0	0.80	07/30/19	AL
[Surrogate]								
o-Terphenyl (OTP)	106		%REC	EPA 8015B		50-150	07/30/19	AL
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3010A	1.0		08/01/19	TLB
Antimony	<0.0200		mg/L	EPA 6010B	1.0	0.0200	08/01/19	TLB
Arsenic	<0.0200		mg/L	EPA 6010B	1.0	0.0200	08/01/19	TLB
Barium	**0.0642**		mg/L	EPA 6010B	1.0	0.0100	08/01/19	TLB
Beryllium	<0.00500		mg/L	EPA 6010B	1.0	0.00500	08/01/19	TLB
Cadmium	<0.00500		mg/L	EPA 6010B	1.0	0.00500	08/01/19	TLB
Chromium	<0.0100		mg/L	EPA 6010B	1.0	0.0100	08/01/19	TLB
Cobalt	**0.0134**		mg/L	EPA 6010B	1.0	0.00500	08/01/19	TLB
Copper	**0.192**		mg/L	EPA 6010B	1.0	0.0100	08/01/19	TLB
Lead	<0.0200		mg/L	EPA 6010B	1.0	0.0200	08/01/19	TLB
Molybdenum	<0.0100		mg/L	EPA 6010B	1.0	0.0100	08/01/19	TLB
Nickel	<0.0100		mg/L	EPA 6010B	1.0	0.0100	08/01/19	TLB
Selenium	<0.0200		mg/L	EPA 6010B	1.0	0.0200	08/01/19	TLB
Silver	<0.0200		mg/L	EPA 6010B	1.0	0.0200	08/01/19	TLB
Thallium	<0.100		mg/L	EPA 6010B	1.0	0.100	08/01/19	TLB
Vanadium	**0.0667**		mg/L	EPA 6010B	1.0	0.0100	08/01/19	TLB
Zinc	**0.101**		mg/L	EPA 6010B	1.0	0.0400	08/01/19	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7470A	1.0		08/02/19	KZ
Mercury	<0.500		ug/L	EPA 7470A	1.0	0.500	08/02/19	KZ
[VOCs by GCMS]								
Acetone	<500		µg/L	EPA 8260B	5.0	500	07/31/19	AL
t-Amyl Methyl Ether (TAME)	<5.0		µg/L	EPA 8260B	5.0	5.0	07/31/19	AL

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1907-00272

LOR GEOTECHNICAL GROUP, INC.
KEVIN OSMUN
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RIVERSIDE, CA 92507

Date Reported	08/02/19
Date Received	07/30/19
Invoice No.	86426
Cust #	1422
Permit Number	
Customer P.O.	33557.21

Project: 875 W. ORANGE GROVE AVE.,POMONA

Sample: 001 **WATER DRUM** Date & Time Sampled: 07/30/19 @ 10:15
Sample Matrix: **Aqueous**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Benzene	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
Bromobenzene	<5.0		µg/L	EPA 8260B	5.0	5.0	07/31/19	AL
Bromochloromethane	<5.0		µg/L	EPA 8260B	5.0	5.0	07/31/19	AL
Bromodichloromethane	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
Bromoform	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
Bromomethane	<10		µg/L	EPA 8260B	5.0	10	07/31/19	AL
t-Butanol (TBA)	<130		µg/L	EPA 8260B	5.0	130	07/31/19	AL
2-Butanone (MEK)	<63		µg/L	EPA 8260B	5.0	63	07/31/19	AL
n-Butylbenzene	<5.0		µg/L	EPA 8260B	5.0	5.0	07/31/19	AL
sec-Butylbenzene	<5.0		µg/L	EPA 8260B	5.0	5.0	07/31/19	AL
tert-Butylbenzene	<5.0		µg/L	EPA 8260B	5.0	5.0	07/31/19	AL
Carbon Disulfide	<50		µg/L	EPA 8260B	5.0	50	07/31/19	AL
Carbon Tetrachloride	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
Chlorobenzene	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
Chloroethane	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
Chloroform	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
Chloromethane	<10		µg/L	EPA 8260B	5.0	10	07/31/19	AL
2-Chlorotoluene	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
4-Chlorotoluene	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
Dibromochloromethane	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
1,2-Dibromoethane (EDB)	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
1,2-Dibromo-3-Chloropropane	<50		µg/L	EPA 8260B	5.0	50	07/31/19	AL
Dibromomethane	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
1,2-Dichlorobenzene	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
1,3-Dichlorobenzene	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
1,4-Dichlorobenzene	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
Dichlorodifluoromethane	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
1,1-Dichloroethane	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
1,2-Dichloroethane	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
1,1-Dichloroethene	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
cis-1,2-Dichloroethene	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL

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Project: 875 W. ORANGE GROVE AVE.,POMONA

Sample: 001 **WATER DRUM** Date & Time Sampled: 07/30/19 @ 10:15
Sample Matrix: **Aqueous**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
trans-1,2-Dichloroethene	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
1,2-Dichloropropane	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
1,3-Dichloropropane	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
2,2-Dichloropropane	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
1,1-Dichloropropene	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
cis-1,3-Dichloropropene	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
trans-1,3-Dichloropropene	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
Diisopropyl Ether (DiPE)	<5.0		µg/L	EPA 8260B	5.0	5.0	07/31/19	AL
Ethylbenzene	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
Ethyl-t-Butyl Ether (EtBE)	<5.0		µg/L	EPA 8260B	5.0	5.0	07/31/19	AL
Hexachlorobutadiene	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
2-Hexanone	<63		µg/L	EPA 8260B	5.0	63	07/31/19	AL
Isopropylbenzene	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
4-Isopropyltoluene	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
Methylene Chloride	<5.0		µg/L	EPA 8260B	5.0	5.0	07/31/19	AL
4-Methyl-2-Pentanone (MIBK)	<63		µg/L	EPA 8260B	5.0	63	07/31/19	AL
Methyl-t-butyl Ether (MtBE)	<5.0		µg/L	EPA 8260B	5.0	5.0	07/31/19	AL
Naphthalene	**75**		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
n-Propylbenzene	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
Styrene	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
1,1,1,2-Tetrachloroethane	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
1,1,2,2-Tetrachloroethane	<5.0		µg/L	EPA 8260B	5.0	5.0	07/31/19	AL
Tetrachloroethene	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
Toluene	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
1,2,3-Trichlorobenzene	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
1,2,4-Trichlorobenzene	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
1,1,1-Trichloroethane	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
1,1,2-Trichloroethane	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
Trichloroethene	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
1,2,3-Trichloropropane	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
Trichlorofluoromethane	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL

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1907-00272

LOR GEOTECHNICAL GROUP, INC.
KEVIN OSMUN
6121 QUAIL VALLEY COURT
RIVERSIDE, CA 92507

Date Reported	08/02/19
Date Received	07/30/19
Invoice No.	86426
Cust #	1422
Permit Number	
Customer P.O.	33557.21

Project: 875 W. ORANGE GROVE AVE.,POMONA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 **WATER DRUM**					Date & Time Sampled:		07/30/19 @ 10:15	
Sample Matrix: **Aqueous**								
.....continued								
Trichlorotrifluoroethane	<3		µg/L	EPA 8260B	5.0	3	07/31/19	AL
1,2,4-Trimethylbenzene	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
1,3,5-Trimethylbenzene	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
Vinyl Chloride	<2.5		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
m,p-Xylenes	<5.0		µg/L	EPA 8260B	5.0	5.0	07/31/19	AL
o-Xylene	**2.5**		µg/L	EPA 8260B	5.0	2.5	07/31/19	AL
[VOC Surrogates]								
Dibromofluoromethane	105		%REC	EPA 8260B		70-130	07/31/19	AL
Toluene-D8	92		%REC	EPA 8260B		70-130	07/31/19	AL
Bromofluorobenzene	94		%REC	EPA 8260B		70-130	07/31/19	AL
Sample: 002 **SOIL DRUMS**					Date & Time Sampled:		07/30/19 @ 10:31	
Sample Matrix: **Soil**								
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.20		mg/Kg	EPA 8015M	1.0	0.20	07/30/19	AL
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		07/30/19	AL
C13-C22	<10		mg/Kg	EPA 8015B	1.0	10	07/30/19	AL
C23-C40	<20		mg/Kg	EPA 8015B	1.0	20	07/30/19	AL
[Surrogate]								
o-Terphenyl (OTP)	98		%REC	EPA 8015B		50-150	07/30/19	AL
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/01/19	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/01/19	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/01/19	TLB
Barium	**72.0**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	TLB
Chromium	**23.7**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	TLB
Cobalt	**7.75**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	TLB
Copper	**21.0**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	TLB

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Customer P.O.	33557.21

Project: 875 W. ORANGE GROVE AVE.,POMONA

Sample: 002 **SOIL DRUMS** Date & Time Sampled: 07/30/19 @ 10:31
Sample Matrix: **Soil**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Lead	**8.24**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	TLB
Nickel	**12.8**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/01/19	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/01/19	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/01/19	TLB
Vanadium	**67.3**		mg/Kg	EPA 6010B	1.0	0.500	08/01/19	TLB
Zinc	**55.4**		mg/Kg	EPA 6010B	1.0	5.00	08/01/19	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		07/30/19	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	07/30/19	KZ
[VOCs by GCMS]								
Closed System P&T VOC Soil	Complete			EPA 5035	1.0		07/30/19	AL
Acetone	<0.10		mg/Kg	EPA 8260B	1.0	0.10	07/30/19	AL
t-Amyl Methyl Ether (TAME)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
Benzene	<0.0040		mg/Kg	EPA 8260B	1.0	0.0040	07/30/19	AL
Bromobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
Bromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
Bromodichloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
Bromoform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
Bromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
t-Butanol (TBA)	<0.0625		mg/Kg	EPA 8260B	1.0	0.0625	07/30/19	AL
2-Butanone (MEK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	07/30/19	AL
n-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
sec-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
tert-Butylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
Carbon Disulfide	<0.010		mg/Kg	EPA 8260B	1.0	0.010	07/30/19	AL
Carbon Tetrachloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
Chlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
Chloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
Chloroform	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL

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Project: 875 W. ORANGE GROVE AVE.,POMONA

Sample: 002 **SOIL DRUMS** Date & Time Sampled: 07/30/19 @ 10:31
Sample Matrix: **Soil**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Chloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
2-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
4-Chlorotoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
Dibromochloromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
1,2-Dibromoethane (EDB)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
1,2-Dibromo-3-Chloropropane	<0.010		mg/Kg	EPA 8260B	1.0	0.010	07/30/19	AL
Dibromomethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
1,2-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
1,3-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
1,4-Dichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
Dichlorodifluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
1,1-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
1,2-Dichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
1,1-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
cis-1,2-Dichloroethene	<0.0020		mg/Kg	EPA 8260B	1.0	0.0020	07/30/19	AL
trans-1,2-Dichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
1,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
1,3-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
2,2-Dichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
1,1-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
cis-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
trans-1,3-Dichloropropene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
Diisopropyl Ether (DiPE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
Ethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
Ethyl-t-Butyl Ether (EtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
Hexachlorobutadiene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
2-Hexanone	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	07/30/19	AL
Isopropylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
4-Isopropyltoluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
Methylene Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
4-Methyl-2-Pentanone (MIBK)	<0.0313		mg/Kg	EPA 8260B	1.0	0.0313	07/30/19	AL

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Customer P.O.	33557.21

Project: 875 W. ORANGE GROVE AVE.,POMONA

Sample: 002 **SOIL DRUMS** Date & Time Sampled: 07/30/19 @ 10:31
Sample Matrix: **Soil**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Methyl-t-butyl Ether (MtBE)	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
Naphthalene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
n-Propylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
Styrene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
1,1,1,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
1,1,2,2-Tetrachloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
Tetrachloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
Toluene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
1,2,3-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
1,2,4-Trichlorobenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
1,1,1-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
1,1,2-Trichloroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
Trichloroethene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
1,2,3-Trichloropropane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
Trichlorofluoromethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
Trichlorotrifluoroethane	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
1,2,4-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
1,3,5-Trimethylbenzene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
Vinyl Chloride	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
m,p-Xylenes	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
o-Xylene	<0.0050		mg/Kg	EPA 8260B	1.0	0.0050	07/30/19	AL
[VOC Surrogates]								
Dibromofluoromethane	114		%REC	EPA 8260B		70-130	07/30/19	AL
Toluene-D8	92		%REC	EPA 8260B		70-130	07/30/19	AL
Bromofluorobenzene	91		%REC	EPA 8260B		70-130	07/30/19	AL

Respectfully Submitted: Ken Zheng

Ken Zheng - Lab Director

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QUALIFIERS

B = Detected in the associated Method Blank at a concentration above the routine RL.
B1 = BOD dilution water is over specifications . The reported result may be biased high.
D = Surrogate recoveries are not calculated due to sample dilution.
E = Estimated value; Value exceeds calibration level of instrument.
H = Analyte was prepared and/or analyzed outside of the analytical method holding time
I = Matrix Interference.
J = Analyte concentration detected between RL and MDL.
Q = One or more quality control criteria did not meet specifications. See Comments for further explanation.
S = Customer provided specification limit exceeded.

ABBREVIATIONS

DF = Dilution Factor
RL = Reporting Limit, Adjusted by DF
MDL = Method Detection Limit, Adjusted by DF
Qual = Qualifier
Tech = Technician

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For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.

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QUALITY CONTROL DATA REPORT

LOR GEOTECHNICAL GROUP, INC.
RIVERSIDE, CA 92507

1907-00272

Date Reported	**08/02/2019**
Date Received	**07/30/2019**
Date Sampled	**07/30/2019**
Invoice No.	**86426**
Customer #	**1422**
Customer P.O.	**33557.21**

Project: 875 W. ORANGE GROVE AVE.,POMONA

Method # EPA 6010B

QC Reference # 83539 **Date Analyzed:** 8/1/2019 **Technician:** TLB

Samples 002

Results

	LCS %REC	LCS %DUP	LCS %RPD
Antimony	106	109	2.3
Arsenic	107	108	0.6
Barium	105	105	0.5
Beryllium	105	106	0.4
Cadmium	105	105	0.0
Chromium	104	104	0.2
Cobalt	105	105	0.1
Copper	110	110	0.3
Lead	106	105	0.6
Molybdenum	107	107	0.6
Nickel	106	106	0.2
Selenium	105	106	0.4
Silver	105	105	0.3
Thallium	107	108	0.3
Vanadium	107	107	0.0
Zinc	104	104	0.2

Control Ranges

LCS %REC	LCS %RPD
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20

QC Reference # 83540 **Date Analyzed:** 8/1/2019 **Technician:** TLB

Samples 001

Results

	LCS %REC	LCS %DUP	LCS %RPD
Antimony	106	110	3.8
Arsenic	113	112	1.5
Barium	105	106	1.4
Beryllium	108	109	0.8
Cadmium	111	109	1.5
Chromium	106	107	0.8
Cobalt	112	110	2.1
Copper	116	117	0.6
Lead	111	109	1.8
Molybdenum	113	112	0.6
Nickel	113	111	2.2
Selenium	110	110	0.2
Silver	109	108	1.1
Thallium	111	111	0.4
Vanadium	113	111	1.2
Zinc	109	108	1.6

Control Ranges

LCS %REC	LCS %RPD
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 25
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20

Method # EPA 7470A

QC Reference # 83570 **Date Analyzed:** 8/2/2019 **Technician:** KZ

Samples 001

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA# 2030513
LA City# 10261
ELAP#'s 2789
2790
2122

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QUALITY CONTROL DATA REPORT

1907-00272

LOR GEOTECHNICAL GROUP, INC.

Date Reported 08/02/2019
Date Received 07/30/2019
Date Sampled 07/30/2019

Project: 875 W. ORANGE GROVE AVE.,POMONA

Method # EPA 7470A
QC Reference # 83570 **Date Analyzed:** 8/2/2019 **Technician:** KZ
Samples 001

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Mercury	88	92	4	76	82	6

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 25	0 - 25

Method # EPA 7471A
QC Reference # 83468 **Date Analyzed:** 7/30/2019 **Technician:** KZ
Samples 002

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Mercury	90	92	2	78	84	17

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 25	0 - 25

Method # EPA 8015B
QC Reference # 83498 **Date Analyzed:** 7/30/2019 **Technician:** AL
Samples 001

Results

	LCS %REC	BLKSRR%REC
C13-C22	102	
o-Terphenyl (OTP)		115

Control Ranges

LCS %REC	BLKSRR%REC
70 - 130	
	50 - 150

QC Reference # 83500 **Date Analyzed:** 7/30/2019 **Technician:** AL
Samples 002

Results

	LCS %REC	SPIKE %REC	SPIKE %DUP	SPIKE %RPD	BLKSRR%REC
C13-C22	103	106	103	3	
o-Terphenyl (OTP)					114

Control Ranges

LCS %REC	SPIKE %RPD	BLKSRR%REC
70 - 130	0 - 25	
		50 - 150

QC Reference # 83521 **Date Analyzed:** 7/31/2019 **Technician:** AL
Samples 001

Results

	LCS %REC	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Gasoline (C4-C12)	101	97	101	4

Control Ranges

LCS %REC	SPIKE %RPD
70 - 130	0 - 25

Method # EPA 8015M
QC Reference # 83491 **Date Analyzed:** 7/30/2019 **Technician:** AL
Samples 002

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FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

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QUALITY CONTROL DATA REPORT

LOR GEOTECHNICAL GROUP, INC.

1907-00272

Date Reported 08/02/2019
Date Received 07/30/2019
Date Sampled 07/30/2019

Project: 875 W. ORANGE GROVE AVE.,POMONA

Method # EPA 8015M
QC Reference # 83491 **Date Analyzed:** 7/30/2019 **Technician:** AL
Samples 002

Results

	LCS %REC	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Gasoline (C4-C12)	100	110	105	5

Control Ranges

LCS %REC	SPIKE %RPD
70 - 130	0 - 25

Method # EPA 8260B
QC Reference # 83493 **Date Analyzed:** 7/30/2019 **Technician:** AL
Samples 002

Results

	LCS %REC	BLKSRR%REC
1,1-Dichloroethene	102	
Benzene	100	
Bromofluorobenzene		97
Chlorobenzene	108	
Dibromofluoromethan		96
Toluene	97	
Toluene-D8		94
Trichloroethene	104	

Control Ranges

LCS %REC	BLKSRR%REC
50 - 150	
50 - 150	
	50 - 150
50 - 150	
	50 - 150
50 - 150	
	50 - 150
50 - 150	

QC Reference # 83520 **Date Analyzed:** 7/31/2019 **Technician:** AL
Samples 001

Results

	LCS %REC	BLKSRR%REC
1,1-Dichloroethene	104	
Benzene	97	
Bromofluorobenzene		98
Chlorobenzene	103	
Dibromofluoromethan		101
Toluene	95	
Toluene-D8		95
Trichloroethene	98	

Control Ranges

LCS %REC	BLKSRR%REC
50 - 150	
50 - 150	
	50 - 150
50 - 150	
	50 - 150
50 - 150	
	50 - 150
50 - 150	

No method blank results were above reporting limit

Respectfully Submitted: Ken Zheng

Ken Zheng - President

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.

ARL

A & R Laboratories
1650 S. Grove Ave., Ste C, Ontario, CA 91761
Tel: 951-779-0310 / 909-781-6335 Fax: 951-779-0344
E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order #: 1907-272

Page 1 of 1

Client Name: LOR Geotechnical Group, Inc.
E-mail: mhunt@lorgeo.com
Address: 6121 Quail Valley Court, Riverside, CA 92507
Report Attention: Mathew L. Hunt
Phone #: 951-653-1760
Fax: #951-653-1741
Sampled By: Mathew L. Hunt
Project No./ Name: 33557.21
Project Site: 875 W. Orange Grove Ave., Pomona

☒ Chilled
☒ Intact
☐ Seal

Analyses Requested

Turn Around Time Requested
☐ Rush 8 12 24 48 Hours
☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	EPA 8015B Ext HC	Remarks
1	Water Drum	7/30/19	1015	Water	HC+HN	3V, 1P	X							X		X	
2	Soil Drums	↓	1031	Soil	IC	1G	X							X		X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Mathew L. Hunt	LOR	7/30/19	1352			7/30	13:52
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

ARL

Sample Acceptance Checklist

CLIENT: LOR GeoTech WORK ORDER NUMBER: 1407-272

Temperature:(Criteria:0.0°C-6.0°C)

Sample Temp.(w/CF) °C(w/CF) 2.7°C

☐ Sample(s) outside temprature criteria: PM contacted by :

☐ Sample(s) outside temprature criteria, but received on ice/chilled on same day of sampling.

☐ Sample(s) received at ambient temprature; placed on ice for transport by courier.

Ambient Temprature ☐ Air ☐ Filter

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present and Not Intact	✓ Not Present	
Sample(s)	☐ Present and Intact	☐ Present and Not Intact	✓ Not Present	

Sample Condition:	Yes	No	N/A
Was a COC received	✓		
Were sample IDs present?	✓		
Were sampling dates & times present?	✓		
Was a relingquished signature present?	✓		
Were the tests required clearly indicated?	✓		
Were all samples sealed in plastic bags?			✓
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of samples sent for tests indicated?	✓		
Was there headspace in VOA vials?		✓	
Were the containers labeled with correct preservatives?	✓		

Explanations/Comments:

Notification:

For discrepancies, how was the Project Manager notified? Verbal

Verbal: PM Initials: _____ Data/Time: _____

Email: Send to: _____ Data/Time: _____

Project Manager's response:

Completed By: [signature] Date: 7/30/14

A R Laboratories
1650 S. Grove Ave., Suite C, Ontario, CA 91761
PH: 951-779-0310 Fax: 951-779-0344
Email: office@arlaboratories.com

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
		909-839-5607	HM1908132

GENERATOR

5. Generator's Name and Mailing Address
Lewis Land Developers, LLC
875 West Orange Grove Ave
Pomona CA 91768
Att: Matthew Hunt
Generator's Phone: 951 853-1780

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name
Haz Mat Trans. Inc.

U.S. EPA ID Number
CAT080012800

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
K Pure Waterworks
8910 Rochester Avenue
Rancho Cucamonga CA 91730
Facility's Phone: 909 476.9492

U.S. EPA ID Number
CAL000379706

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1	Non-Hazardous Waste Liquid (Decon Water)	01	DM	40	G	
2	Non-Hazardous Waste Solid (Soil)	06	DM	3600	P	
3.						
4.						

13. Special Handling Instructions and Additional Information
9b.1) 66943 1x55 9b.2) 66942CW 6x55
Bill to Haz Mat Trans; Wear proper PPE when handling hazardous waste. (W/O#HM1908132-kr)
*24 Hour Emergency # Provided By Haz Mat Trans

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Mathew L. Hunt on behalf of Lewis Land Developers, LLC
Signature: Mathew L Hunt
Month 8 Day 21 Year 19

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Rali Mosley
Signature: Rali Mosley
Month 8 Day 21 Year 19

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Edwin Gardner
Signature: Edwin Gardner
Month 8 Day 21 Year 19

169-BLC-O 5 11977 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

Appendix F

Noise and Vibration Study

875 West Orange Grove Avenue Project

Noise and Vibration Study

prepared for

City of Pomona
505 South Garey Avenue
Pomona, California 91769
Contact: Vinny Tam

prepared by

Rincon Consultants, Inc.
250 East 1st Street, Suite 1400
Los Angeles, California 90012

December 2020

RINCON CONSULTANTS, INC.
Environmental Scientists | Planners | Engineers
rinconconsultants.com

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Appendix A Noise Measurement Data
Appendix B Noise Modeling Results
Appendix C Sample HVAC Specifications
Appendix D Sample Noise Barrier

1 Project Description and Impact Summary

1.1 Introduction

This study analyzes the potential noise and vibration impacts associated with the construction and operation of the proposed Pomona 33 Project (project) located at 875 West Orange Grove Avenue in the City of Pomona (City), California. Rincon Consultants, Inc. (Rincon) prepared this study under contract to the City of Pomona in support of the environmental documentation being prepared pursuant to the California Environmental Quality Act (CEQA). Table 1 provides a summary of project impacts.

Table 1 Summary of Impacts

Issue	Proposed Project's Level of Significance	Applicable Recommendations
Would the project result in 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 applicable standards of other agencies?	May conflict with construction noise standards (Construction) Less than significant impact (Operation)	NOI-1 (Temporary Construction Sound Barriers) None
Would the project result in the exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?	Less than significant impact (Construction) Less than significant impact (Operation)	None
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?	Less than significant impact	None
Would the project conflict with land use compatibility guidelines for noise?	Consistent with applicable noise standards	None

Recommendation

Implementation of the following recommendation would ensure construction noise impacts are less than significant.

NOI-1 Temporary Construction Sound Barriers

The project applicant shall reduce construction noise levels at the adjacent residences to 65 dBA L_{eq} (one-hour) or less through the following measures:

- Temporary noise barriers and/or blankets with a minimum height of six feet shall be constructed along the entire western project site boundary and along the segment of the eastern project site boundary that abuts 912 Casa Hermosa Drive and 845 West Orange Grove Avenue. The temporary noise barriers and/or blankets may be constructed of material with a minimum weight of two pounds per square foot with no gaps or perforations. Temporary noise barriers and/or blankets may be constructed of, but not limited to, 5/8-inch plywood, 5/8-inch oriented strand board, and hay bales. Example product sheets are included in Appendix D.

- A sign shall be provided at the yard entrance, or other conspicuous location, that includes a telephone number for project information, and a procedure where a field engineer/construction manager shall respond to and investigate noise complaints and take corrective action if necessary in a timely manner. The sign shall have a minimum dimension of 48 inches wide by 24 inches high. The sign shall be placed 5 feet above ground level.
- If a noise complaint(s) is registered, the contractor shall retain a City-approved noise consultant to conduct noise measurements at the use(s) that registered the complaint. The noise measurements shall be conducted for a minimum of one hour and shall include one-minute intervals. The consultant shall prepare a letter report summarizing the measurements and potential measures to reduce noise levels to the maximum extent feasible. The letter report shall include all measurement and calculation data used in determining impacts and resolutions. The letter report shall be provided to code enforcement for determining adequacy and recommendations, as well potential revocation of the variance if measures are inadequate.

1.2 Project Summary

Project Location

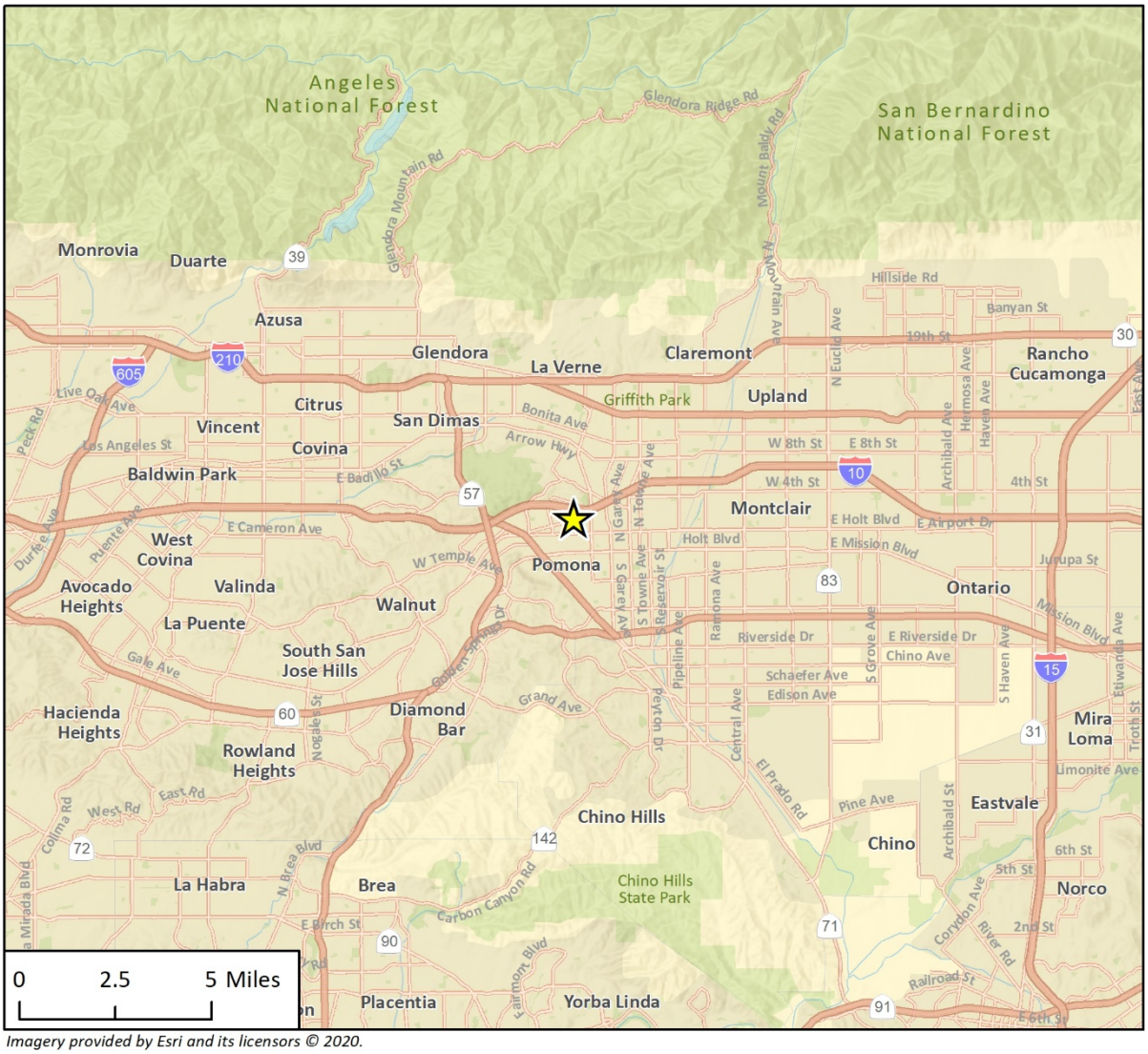
The project site is located at 875 West Orange Grove Avenue in the City of Pomona (APNs: 8358 009-006, 8358-009-009, and 8358-009-010) and is approximately 930 feet south of Interstate 10 (I-10). The 3.6-acre project site's current designated land use is Residential Neighborhood and is zoned R-1-6,000, which permits detached single-family dwellings on lot sizes that are a minimum of 6,000 square feet. Figure 1 shows the regional location of the site, and Figure 2 shows the project site in the existing neighborhood context.

Project Description

The Pomona 33 Project (project) proposes the development of 33 detached single-family residences. Figure 3 shows the project site plan. The proposed residences would consist of three- to four-bedroom units, ranging between 1,687 square feet (sf) to 1,955 sf. The 33 residences would be configured in a horseshoe arrangement, with 24 residences along the edge of the project boundaries and nine residences located in the center of the site. The proposed residences would be two stories and vary in maximum height between approximately 25 to 28 feet in height depending on the building plan.

Building materials would include stucco for most of the building façade, accented with fascia, trim, and stone in complementary tones. Proposed roofing materials would consist of clay Spanish tiles and wood shingles to provide a varied but thematically consistent aesthetic within the proposed community.

Figure 1 Regional Location



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Project Location

N

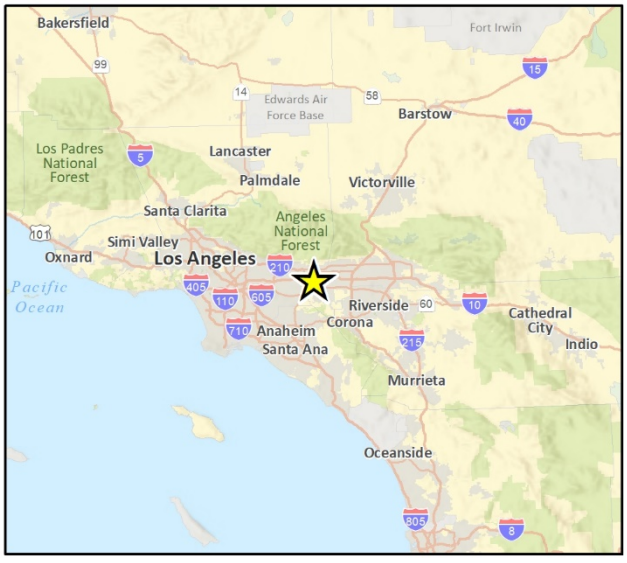
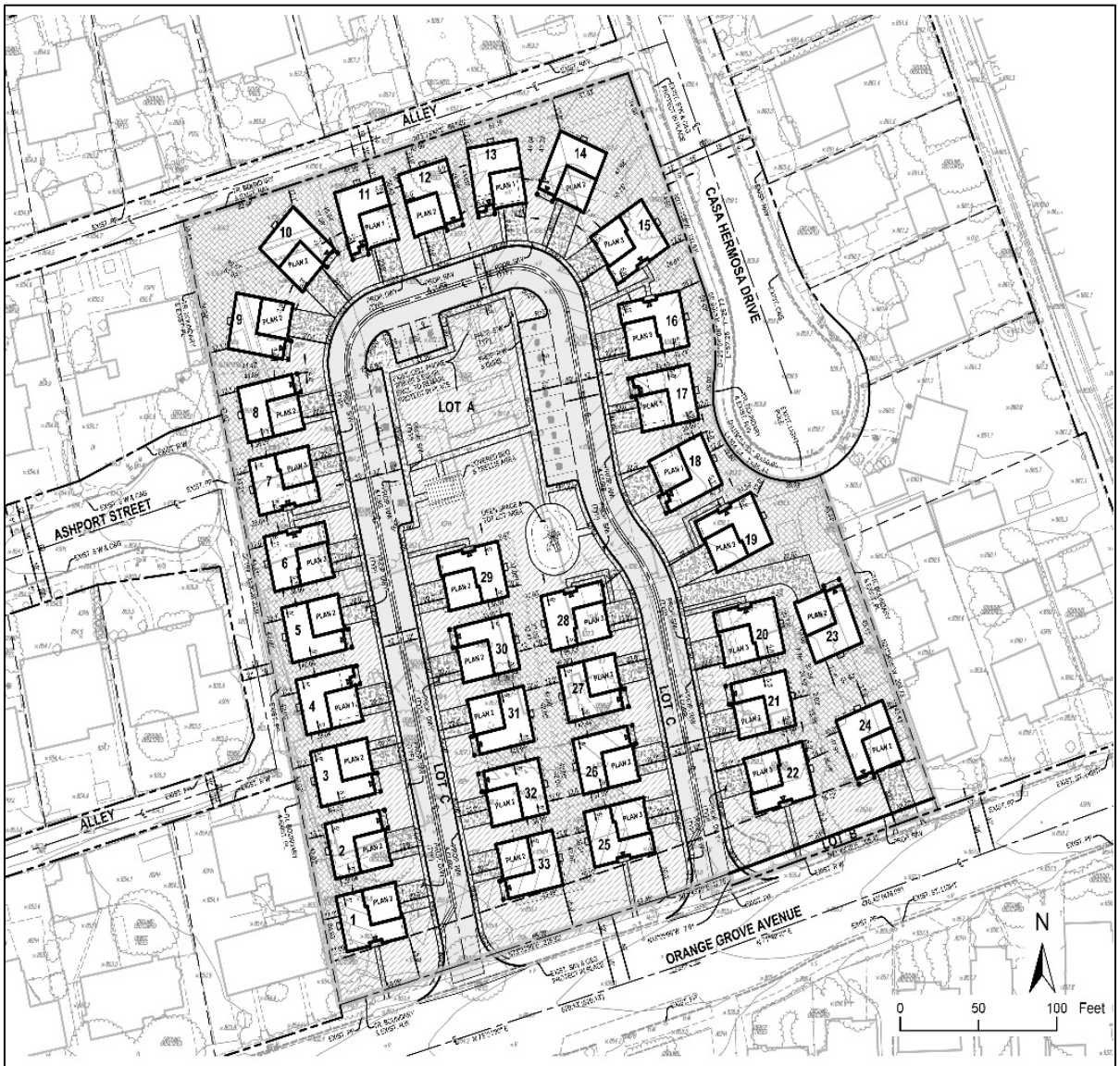


Figure 2 Project Location

Imagery provided by Microsoft Bing and its licensors © 2020.

Fig 2 Noise Measurements

Figure 3 Site Plan



Source: Madole & Associates, Inc., 2020.

2 Background

2.1 Overview of Sound Measurement

Sound is a vibratory disturbance created by a moving or vibrating source, which is capable of being detected by the hearing organs. Noise is defined as sound that is loud, unpleasant, unexpected, or undesired and may therefore be classified as a more specific group of sounds. The effects of noise on people can include general annoyance, interference with speech communication, sleep disturbance, and, in the extreme, hearing impairment (California Department of Transportation [Caltrans] 2013).

Noise levels are commonly measured in decibels (dB) using the A-weighted sound pressure level (dBA). The A-weighting scale is an adjustment to the actual sound pressure levels so that they are consistent with the human hearing response, which is most sensitive to frequencies around 4,000 Hertz and less sensitive to frequencies around and below 100 Hertz (Kinsler, et. al. 1999). Decibels are measured on a logarithmic scale that quantifies sound intensity in a manner similar to the Richter scale used to measure earthquake magnitudes. A doubling of the energy of a noise source, such as doubling of traffic volume, would increase the noise level by 3 dB; dividing the energy in half would result in a 3 dB decrease (Crocker 2007).

Human perception of noise has no simple correlation with sound energy: the perception of sound is not linear in terms of dBA or in terms of sound energy. Two sources do not "sound twice as loud" as one source. It is widely accepted that the average healthy ear can barely perceive changes of 3 dBA, increase or decrease (i.e., twice the sound energy); that a change of 5 dBA is readily perceptible (8 times the sound energy); and that an increase (or decrease) of 10 dBA sounds twice (half) as loud (Crocker 2007).

Sound changes in both level and frequency spectrum as it travels from the source to the receiver. The most obvious change is the decrease in level as the distance from the source increases. The manner by which noise reduces with distance depends on factors such as the type of sources (e.g., point or line, the path the sound will travel, site conditions, and obstructions). Noise levels from a point source typically attenuate, or drop off, at a rate of 6 dBA per doubling of distance (e.g., construction, industrial machinery, ventilation units). Noise from a line source (e.g., roadway, pipeline, railroad) typically attenuates at about 3 dBA per doubling of distance (Caltrans 2013). The propagation of noise is also affected by the intervening ground, known as ground absorption. A hard site, such as a parking lot or smooth body of water, receives no additional ground attenuation and the changes in noise levels with distance (drop-off rate) result from simply the geometric spreading of the source. An additional ground attenuation value of 1.5 dBA per doubling of distance applies to a soft site (e.g., soft dirt, grass, or scattered bushes and trees) (Caltrans 2013). Noise levels may also be reduced by intervening structures; the amount of attenuation provided by this "shielding" depends on the size of the object and the frequencies of the noise levels. Natural terrain features such as hills and dense woods, and man-made features such as buildings and walls, can significantly alter noise levels. Generally, any large structure blocking the line of sight will provide at least a 5-dBA reduction in source noise levels at the receiver (Federal Highway Administration [FHWA] 2011). Structures can substantially reduce exposure to noise as well. The FHWA's guidelines indicate that modern building construction generally provides an exterior-to-interior noise level reduction of 20 to 35 dBA with closed windows.

The impact of noise is not a function of loudness alone. The time of day when noise occurs and the duration of the noise are also important factors of project noise impact. Most noise that lasts for more than a few seconds is variable in its intensity. Consequently, a variety of noise descriptors have been developed. One of the most frequently used noise metrics is the equivalent noise level (L_{eq}); it considers both duration and sound power level. L_{eq} is defined as the single steady A-weighted level equivalent to the same amount of energy as that contained in the actual fluctuating levels over time.

Noise that occurs at night tends to be more disturbing than that occurring during the day. Community noise is usually measured using Day-Night Average Level (L_{dn}), which is the 24-hour average noise level with a +10 dBA penalty for noise occurring during nighttime (10:00 p.m. to 7:00 a.m.) hours. It is also measured using CNEL, which is the 24-hour average noise level with a +5 dBA penalty for noise occurring from 7:00 p.m. to 10:00 p.m. and a +10 dBA penalty for noise occurring from 10:00 p.m. to 7:00 a.m. (Caltrans 2013). Noise levels described by L_{dn} and CNEL usually differ by about 1 dBA. The relationship between the peak-hour L_{eq} value and the L_{dn}/CNEL depends on the distribution of traffic during the day, evening, and night.

2.2 Vibration

Groundborne vibration of concern in environmental analysis consists of the oscillatory waves that move from a source through the ground to adjacent structures. The number of cycles per second of oscillation makes up the vibration frequency, described in terms of Hz. The frequency of a vibrating object describes how rapidly it oscillates. The normal frequency range of most groundborne vibration that can be felt by the human body starts from a low frequency of less than 1 Hz and goes to a high of about 200 Hz (Crocker 2007).

While people have varying sensitivities to vibrations at different frequencies, in general they are most sensitive to low-frequency vibration. Vibration in buildings, such as from nearby construction activities, may cause windows, items on shelves, and pictures on walls to rattle. Vibration of building components can also take the form of an audible low-frequency rumbling noise, referred to as groundborne noise. Groundborne noise is usually only a problem when the originating vibration spectrum is dominated by frequencies in the upper end of the range (60 to 200 Hz), or when foundations or utilities, such as sewer and water pipes, physically connect the structure and the vibration source (FTA 2018). Although groundborne vibration is sometimes noticeable in outdoor environments, it is almost never annoying to people who are outdoors. The primary concern from vibration is that it can be intrusive and annoying to building occupants and vibration-sensitive land uses.

Vibration amplitudes are usually expressed in peak particle velocity (PPV) or root mean squared (RMS) vibration velocity. The PPV and RMS velocity are normally described in inches per second (in/sec). PPV is defined as the maximum instantaneous positive or negative peak of a vibration signal. PPV is often used in monitoring of blasting vibration because it is related to the stresses that are experienced by buildings (Caltrans 2020).

2.3 Sensitive Receivers

Noise exposure goals for various types of land uses reflect the varying noise sensitivities associated with those uses. According to the City of Pomona Noise Element, the following land uses are

considered noise-sensitive uses of primary concern: residences, schools, childcare facilities, convalescent centers and retirement homes (City of Pomona 2014).

Vibration-sensitive receivers, which are similar to noise-sensitive receivers, include residences and institutional uses, such as schools, churches, and hospitals. Vibration-sensitive receivers also include buildings where vibrations may interfere with vibration-sensitive equipment that is affected by vibration levels that may be well below those associated with human annoyance (e.g., recording studies or medical facilities with sensitive equipment).

As shown in Figure 2, the nearest sensitive receivers are the single-family residences immediately adjacent to the project site to the north, east, and west, as well as to the south across West Orange Grove Avenue.

2.4 Project Noise Setting

The most common source of noise in the project site vicinity is vehicular traffic from West Orange Grove Avenue and to a lesser extent, I-10. To characterize ambient sound levels at and near the project site, three short term 15-minute and one long term 24-hour sound level measurements were conducted on October 27, 2020. Noise Measurement (NM) 1 was conducted at the northeastern edge of the project site to capture noise levels attributable to Casa Hermosa Drive. NM2 was conducted near the center of the project site approximately 275 feet from West Orange Grove Avenue to capture ambient noise levels near the center of the project site. NM3 was conducted at the southern boundary of the project site, approximately 40 feet from the centerline of West Orange Grove Avenue to capture noise levels attributable to West Orange Grove Avenue. Additionally, the long-term noise measurement was conducted near the center of the project site approximately 150 feet from West Orange Grove Avenue to capture ambient noise levels near the center of the project site. Table 2 summarizes the results of the short-term noise measurements, Table 3 shows the recorded traffic volumes, and Table 4 summarizes the results of the long-term noise measurements.

Table 2 Project Site Vicinity Sound Level Monitoring Results

Measurement Location	Measurement Location	Sample Times	Approximate Distance to Primary Noise Source	L_{eq} (dBA)	L_{min} (dBA)	L_{max} (dBA)
NM1	Northeastern property boundary, adjacent Casa Hermosa Drive	2:35 – 2:50 p.m.	Approximately 25 feet to Casa Hermosa Drive	50.5	44.0	67.3
NM2	Center of project site	2:53 – 3:08 p.m.	Approximately 275 feet to West Orange Grove Avenue	52.4	46.4	71.4
NM3	Southern property boundary, adjacent to West Orange Grove Avenue	3:12 – 3:27 p.m.	Approximately 40 feet to West Orange Grove Avenue	68.7	43.5	80.1

Detailed sound level measurement data are included in Appendix A.

Table 3 Sound Level Monitoring Traffic Counts

Measurement	Roadway	Traffic	Autos	Medium Trucks	Heavy Trucks
NM1	Casa Hermosa Drive	15-minute count	11	0	0
		One-hour equivalent	44	0	0
NM3	West Orange Grove Avenue	15-minute count	185	4	0
		One-hour equivalent	740	16	0
Percent			**97.5%**	**2.5%**	**0%**

Note: Detailed sound level measurement data are included in Appendix A.

Table 4 Project Site Noise Monitoring Results – Long Term

Sample Time	dBA L_{eq}	Sample Time	dBA L_{eq}
24-hour Measurement – October 27-28, 2020			
3:48 PM	56.6	3:48 AM	58.8
4:48 PM	59.0	4:48 AM	60.3
5:48 PM	55.7	5:48 AM	64.0
6:48 PM	56.0	6:48 AM	60.2
7:48 PM	54.7	7:48 AM	57.6
8:48 PM	55.1	8:48 AM	55.9
9:48 PM	55.4	9:48 AM	52.2
10:48 PM	56.4	10:48 AM	54.3
11:48 PM	57.7	11:48 AM	57.0
12:48 AM	55.0	12:48 PM	57.0
1:48 AM	57.9	1:48 PM	56.7
2:48 AM	56.9	2:48 PM	56.1
24-hour Noise Level (dBA CNEL)			**65.3**

See Figure 2 for Noise Measurement Locations; see Appendix A for full measurement details.

2.5 Regulatory Setting

City of Pomona Noise Element

The Noise & Safety chapter of the Pomona General Plan provides a description of existing noise levels and sources and incorporates comprehensive goals and policies. The General Plan includes the Community Noise Exposure table (shown in Figure 4), which establishes acceptable noise, conditionally acceptable, normally unacceptable, and clearly unacceptable noise levels for various land uses. As shown, ambient noise levels up to 60 CNEL are normally acceptable and ambient noise levels up to 70 CNEL are conditionally acceptable[1] for single-family residential development. In addition to the exterior noise standards, the General Plan identifies a residential interior noise standard of 45 CNEL (City of Pomona 2014).

[1] According to the Noise & Safety chapter of the Pomona General Plan, exposure to "conditionally acceptable" noise levels means that 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.

Pomona City Code

Chapter 18, Article VII, Noise and Vibration Control, of the Pomona City Code establishes a series of regulations and standards to prevent excessive noise that may jeopardize the health, welfare or safety of the citizens or degrade their quality of life. Specifically, City Code Section 18-311, Exterior Noise Standards, establishes exterior noise standards categorized by various noise zones in the City. As shown in Table 5, the noise standards for these zones differ between daytime (7:00 a.m. to 10:00 p.m.) and nighttime (10:00 p.m. to 7:00 a.m.) hours.

City Code Section 18-311(b) states that the noise levels in Table 5 shall not exceed one or more of the following:

- The noise standard for a cumulative period of more than 30 minutes in any hour;
- The noise standard plus 5 dBA for a cumulative period of more than 15 minutes in any hour;
- The noise standard plus 10 dBA for a cumulative period of more than five minutes in any hour;
- The noise standard plus 15 dBA for a cumulative period of more than one minute in any hour; or
- The noise standard plus 20 dBA for any period of time.

City Code Section 18-311(c) states that If the ambient noise level exceeds any of the noise limit categories in subsections (b)(1) through (4) of this section, the cumulative period applicable to such category shall be increased to reflect such ambient noise level. If the ambient noise level exceeds the noise limit category in subsection (b)(5) of this section, the maximum allowable noise level under such category shall be increased to reflect the maximum ambient noise level.

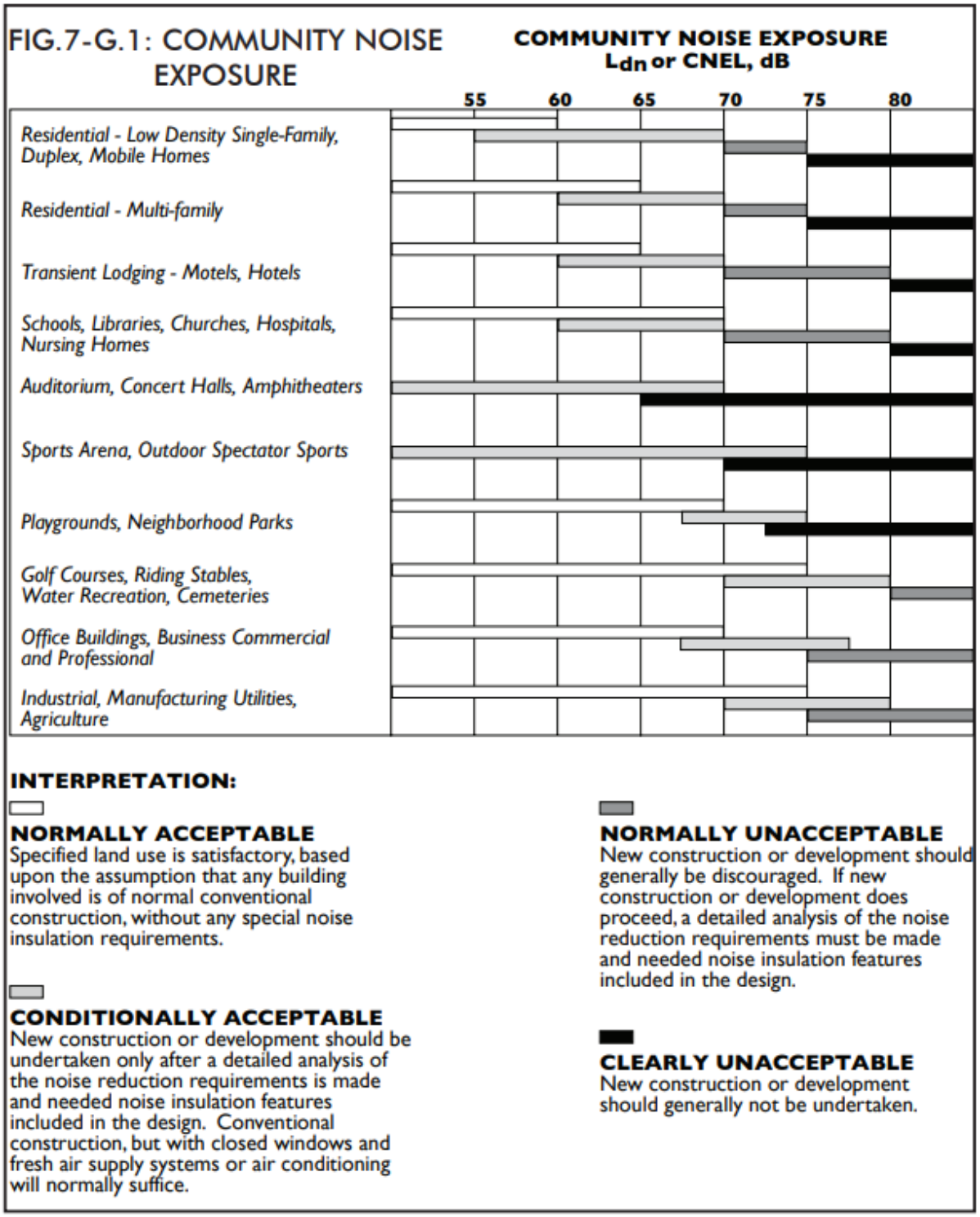
City Code Section 18-305, Exemptions, exempts construction noise and vibration from the City Code standards provided that such activities do not take place between the hours of 8:00 p.m. and 7:00 a.m. on weekdays, including Saturday, or at any time on Sunday or a federal holiday, and provided that 1) the noise levels created by such activities does not exceed the noise standard of 65 dBA at a residential property or the standards specified in City Code Section 18-311(b) described below, and 2) the vibration levels do not endanger the public health, welfare, and safety.

Table 5 Exterior Noise Level Standards

		Noise Levels (dBA)	
Noise Zone	Land Use	Daytime (7:00 a.m. to 10:00 p.m.)	Nighttime (10:00 p.m. to 7:00 a.m.)
1	Single-Family Residential	60 dBA	50 dBA
2	Multi-Family Residential	65 dBA	50 dBA
3	Commercial	65 dBA	60 dBA

Source: Pomona City Code, Sections 18-310 (Designated Noise Zones) and 18-311 (Exterior Noise Standards)

Figure 4 City of Pomona Community Noise Exposure (CNEL)



3 Methodology

Noise level modeling for sources associated with construction and operation of the project and the traffic noise exposure for the proposed residences were developed with using SoundPLAN noise modeling software (SoundPLAN), Version 8.2. SoundPLAN incorporates noise propagation algorithms and reference sound levels published by various government agencies and the scientific community. Noise sources, receivers, structures, and barriers are input using three-dimensional coordinates. In all cases receivers were modeled at the average height of the human ear, which is five feet above ground elevation or floor elevation for multi-story buildings.

3.1 Construction Noise

Construction activity would result in temporary noise in the project site vicinity, exposing surrounding nearby receivers to increased noise levels. Project construction noise would be generated by heavy-duty diesel construction equipment used for demolition of existing structures, earthworks, loading, unloading, and placing materials and paving. Typical heavy construction equipment during project grading could include dozers, loaders, graders, and dump trucks. It is assumed that diesel engines would power all construction equipment. Each phase of construction has a specific equipment mix, depending on the work to be accomplished during that phase. Each phase also has its own noise characteristics; some will have higher continuous noise levels than others, and some have high-impact noise levels. Construction noise would typically be higher during the more equipment-intensive phases of initial construction (i.e., site preparation and grading) and would be lower during the later construction phases (i.e., building construction and paving).

During construction, equipment goes through varying load cycles and is operated intermittently to allow for non-equipment tasks such as measurement. Power variation is accounted for by describing the noise at a reference distance from the equipment operating at full power and adjusting it based on the duty cycle of the activity to determine the L_{eq} of the operation (FHWA 2018). Reference noise levels for heavy-duty construction equipment were estimated using the FHWA Roadway Construction Noise Model (RCNM) (FHWA 2006). Due to the size of the project site, a likely construction scenario includes simultaneous operation of a dozer and a front-end loader working during grading to excavate and move soil. At a distance of 50 feet, a dozer and a front-end loader would generate a noise level of 79.6 dBA L_{eq} (RCNM calculations are included in Appendix B).

Construction equipment such as bulldozers, graders, and loaders and excavators would operate as close as 15 feet to adjacent properties; however, over the course of a typical construction day, the equipment would move around the project site. For example, during a typical construction day, the equipment may operate across the horizontal distance (300 feet) or vertical distance (430 feet) of the site from a nearby noise receiver. Due to the complex nature of construction sites, construction noise is typically considered a point source located at the center of the work area. Noise propagation was estimated in SoundPLAN using algorithms from ISO Standard 9613-2, “Attenuation of Sound during Propagation Outdoors, Part 2: General Method of Calculation.”

3.2 Groundborne Vibration

The project does not include any substantial vibration sources associated with operation. Thus, construction activities have the greatest potential to generate ground-borne vibration affecting

nearby receivers, especially during grading and excavation of the project site. The greatest vibratory source during construction in the project vicinity would be a large bulldozer. Neither blasting nor pile driving would be required for construction of the project. Construction vibration estimates are based on vibration levels reported by Caltrans and the FTA (Caltrans 2020, FTA 2018). Table 6 shows typical vibration levels for various pieces of construction equipment used in the assessment of construction vibration (FTA 2018).

Table 6 Vibration Levels Measured during Construction Activities

Equipment	PPV at 25 ft. (in/sec)
Large Bulldozer	0.089
Loaded Trucks	0.076
Small Bulldozer	0.003

Source: FTA 2018

Vibration limits used in this analysis to determine a potential impact to local land uses from construction activities, such as blasting, pile-driving, vibratory compaction, demolition, drilling, or excavation, are based on information contained in Caltrans' *Transportation and Construction Vibration Guidance Manual* and the Federal Transit Administration and the FTA *Transit Noise and Vibration Impact Assessment Manual* (Caltrans 2013; FTA 2018). Maximum recommended vibration limits by the American Association of State Highway and Transportation Officials (AASHTO) are identified in Table 7.

Table 7 AASHTO Maximum Vibration Levels for Preventing Damage

Type of Situation	Limiting Velocity (in/sec)
Historic sites or other critical locations	0.1
Residential buildings, plastered walls	0.2–0.3
Residential buildings in good repair with gypsum board walls	0.4–0.5
Engineered structures, without plaster	1.0–1.5

Source: Caltrans 2020

Based on AASHTO recommendations, limiting vibration levels to below 0.2 in/sec PPV at residential structures would prevent structural damage regardless of building construction type. These limits are applicable regardless of the frequency of the source. However, as shown in Table 8 and Table 9, potential human annoyance associated with vibration is usually different if it is generated by a steady state or a transient vibration source.

Table 8 Human Response to Steady State Vibration

PPV (in/sec)	Human Response
3.6 (at 2 Hz)–0.4 (at 20 Hz)	Very disturbing
0.7 (at 2 Hz)–0.17 (at 20 Hz)	Disturbing
0.10	Strongly perceptible
0.035	Distinctly perceptible
0.012	Slightly perceptible

Source: Caltrans 2020

Table 9 Human Response to Transient Vibration

PPV (in/sec)	Human Response
2.0	Severe
0.9	Strongly perceptible
0.24	Distinctly perceptible
0.035	Barely perceptible

Source: Caltrans 2020

As shown in Table 9, the vibration level threshold at which transient vibration sources (such as construction equipment) are considered to be distinctly perceptible is 0.24 in/sec PPV. This analysis uses the distinctly perceptible threshold for purposes of assessing vibration impacts.

Although groundborne vibration is sometimes noticeable in outdoor environments, groundborne vibration is almost never annoying to people who are outdoors; therefore, the vibration level threshold for human perception is assessed at occupied structures (FTA 2018). Therefore, all vibration impacts are assessed at the structure of an affected property.

3.3 Operational Noise Sources

The noise sources on the project site after completion of construction are anticipated to be those that would be typical of any residential complex, such as vehicles arriving and leaving, children at play, and landscape maintenance machinery. Noise sources of this nature are consistent with the existing noise environment and would not be anticipated to exceed applicable noise level limits from the Municipal Code. To be conservative, noise levels associated with HVAC units with exterior condensers were modeled to determine resulting noise levels at adjacent properties.

Heating, Ventilation, and Air Conditioning Units

There will be an AC condenser in the rear yard of each residence of approximately 3 tons and the FAU will be in the attic space. Specific planning data for the future HVAC systems are not available at this stage of project design; however, analysis using a typical to larger-sized (5-ton) residential condenser provides a reasonable basis for analysis. The unit used in this analysis is a Carrier 38HDR060 split system condenser. The manufacturer's noise data is provided below in Table 10 (see Appendix C for specification sheets).

Table 10 HVAC Noise Levels

Noise Levels in dB[1] Measured at Octave Frequencies							Overall Noise Level in A-weighted Scale (dBA)[1]
125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz	
63.0	61.5	64.0	66.5	66.0	64.5	55.5	72.4

[1] Noise Levels for a Carrier 38HDR060 split system condenser (see Appendix C for specification sheets).

Hz = Hertz; KHz = kilohertz

For a conservative scenario, the units were assumed conservatively to operate at 100 percent of an hour for 24 hours. All HVAC units were modeled as being three feet above ground elevation. Noise

propagation was estimated in SoundPLAN using algorithms from ISO Standard 9613-2, "Attenuation of Sound during Propagation Outdoors, Part 2: General Method of Calculation."

3.4 Traffic Noise

Noise levels affecting the proposed project site would be primarily influenced by traffic noise from West Orange Grove Avenue. Additionally, noise modeling accounts for noise contributions from Hamilton Blvd and Interstate 10; no other major or minor arterials are in proximity to the site. Future noise levels affecting the compatibility of the project site were estimated in SoundPLAN using algorithms and reference traffic noise reference levels from the FHWA's Traffic Noise Model (TNM).

Future traffic volumes on local roadways were obtained from project Traffic Impact Analysis (Ganddini Group, Inc. 2020). Based on traffic counts taken during site noise measurements, a vehicle classification mix of 96.5 percent automobiles, 2 percent medium trucks, 1 percent buses, and 0.5 percent motorcycles was modeled for local roadways. The posted speed limit is 35 miles per hour on West Orange Grove Avenue and Hamilton Blvd. The vehicle traffic volume and vehicle classification mix for Interstate 10, was based on Caltrans Truck Counts (Caltrans 2016); the vehicle classification mix for I-10 was a vehicle classification mix of 91.8 percent automobiles, 1.8 percent medium trucks, and 4.9 percent heavy trucks, 1 percent buses, and 0.5 percent motorcycles was modeled. Traffic parameters are summarized in Table 11.

For determining noise-land use compatibility, exterior traffic noise levels at the residential exterior use areas (backyards) and residential building façades were calculated. Receivers generally placed on the ground floor 5 feet above ground level; building façades along Orange Grove Avenue were also modeled at the second-floor elevations of approximately 20 feet above ground level.

Table 11 Modeled Traffic Speeds and Volumes

Roadway	Segment	Speed (mph)	Modeled Volume[1,2]
W. Orange Grove Avenue	Dudley St to Hamilton Blvd	35	10,400
	East of Hamilton	35	13,000
Hamilton Blvd	North of Orange Grove Avenue	35	500
	South of Orange Grove Avenue	35	6,100
Interstate 10	State Route 71 to Indian Hill Blvd	65	266,000

[1] Traffic Impact Analysis Opening Year (2023) With Project Scenario.

[2] Volumes on Interstate 10 are from Caltrans existing traffic counts.

Source: Ganddini Group, Inc. 2020; Caltrans 2016

3.5 Significance Thresholds

To determine whether a project would have a significant noise impact, Appendix G of the CEQA Guidelines requires consideration of whether a project would result in:

1. 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 applicable standards of other agencies;
2. Generation of excessive groundborne vibration or groundborne noise levels; or,
3. 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, expose people residing or working in the project area to excessive noise levels

Construction Noise

As discussed in Section 2.5, City Code Section 18-305 exempts construction noise and vibration from the exterior noise standards provided that such activities do not occur between 8:00 p.m. and 7:00 a.m. on weekdays, including Saturday, or at any time on Sunday or a federal holiday, and provided the noise level created by such activities do not exceed the noise standard of 65 dBA at a residential property for a one-hour period. Therefore, construction noise would be significant if it exceeded 65 dBA at a residential property for a one-hour period.

Land Use Compatibility

Traffic noise exposure to a proposed development would be an impact of the environment on the proposed project. As such, no level of traffic noise exposure would not be considered an impact under CEQA. Nonetheless, an evaluation of traffic noise-land use compatibility relative to the standards in Figure 4 is included in Section 2.5 for informational purposes.

On-site Operational Noise

The project site is in a single-family residential neighborhood; adjacent uses to the north, south, east, and west are single-family residential. As discussed in Section 2.5, City Code Section18-311 establishes exterior noise standards which are assessed at property lines. The noise standards applicable at single-family residential property lines are 60 dBA L_{eq} between daytime 7:00 a.m. to 10:00 p.m. and 50 dBA L_{eq} between 10:00 p.m. to 7:00 a.m. On-site operational noise would be significant if it exceeded these noise standards.

Off-site Traffic Noise

Off-site project noise (i.e., roadway noise) would result in a significant impact if the project would cause the ambient noise level measured at the property line of affected uses to increase by 3 dBA, which would be a barely perceptible increase in traffic noise.

Construction Vibration

The Caltrans *Transportation and Construction Vibration Guidance Manual* (2020) is used to evaluate potential construction vibration impacts related to both potential building damage and human annoyance. Based on the Caltrans criteria described above, construction vibration impacts would be significant if vibration levels exceed 0.2 in./sec. PPV for residential structures, which are the limits

where minor cosmetic, i.e. non-structural, damage may occur to these buildings. In addition, construction vibration impacts would cause human annoyance at nearby receivers if vibration levels exceed 0.24 in./sec. PPV, which is the limit where vibration becomes distinctly perceptible from barely perceptible. Groundborne noise and vibration would be significant if it exceeded these standards.

4 Impact Analysis

4.1 Issue 1

Issue: Would the project result in 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 applicable standards of other agencies? **LESS THAN SIGNIFICANT**

Construction

Following the methodology discussed in Section 3.1, construction noise levels were modeled at a series of receivers along the nearby residential property lines and noise ground-floor contours were estimated. Estimated noise levels at adjacent residential property lines are summarized in Table 12 and ground-floor noise contours are shown on Figure 5. Noise modeling data is included as Appendix B.

Table 12 Construction Noise Levels

Receiver Group	Description	Modeled Noise Level (dBA L_{eq} 1-hour)	Exceed Construction Threshold?[1]
1-3	Western project site boundary	63 - 66	Yes
4-8	North of project site across alley	61 - 62	No
9-13	Northeast of project site across Casa Hermosa Dr	58 - 64	No
14-16	Eastern project site boundary	63 - 66	Yes
17-26	South of project site across West Orange Grove Ave	58 - 62	No

[1] The applicable daytime threshold (7:00 a.m. to 10:00 p.m.) is 65 dBA L_{eq} (1-hour) at residential properties.

As shown, without the recommendation stated below, construction noise levels would be anticipated to exceed applicable noise level limits from the City Code at residential property lines along the western and eastern boundaries of the project site.

Recommendation

The following recommendation would reduce construction noise levels at adjacent residential properties:

NOI-1 Temporary Construction Sound Barriers

The project applicant shall reduce construction noise levels at the adjacent residences to 65 dBA L_{eq} (one-hour) or less through the following measures:

- Temporary noise barriers and/or blankets with a minimum height of six feet shall be constructed along the entire western project site boundary and along the segment of the eastern project site boundary that abuts 912 Casa Hermosa Drive and 845 West Orange Grove Avenue. The temporary noise barriers and/or blankets may be constructed of material with a minimum weight of two pounds per square foot with no gaps or perforations. Temporary noise

barriers and/or blankets may be constructed of, but not limited to, 5/8-inch plywood, 5/8-inch oriented strand board, and hay bales. Example product sheets are included in Appendix D.

- A sign shall be provided at the yard entrance, or other conspicuous location, that includes a telephone number for project information, and a procedure where a field engineer/construction manager shall respond to and investigate noise complaints and take corrective action if necessary in a timely manner. The sign shall have a minimum dimension of 48 inches wide by 24 inches high. The sign shall be placed 5 feet above ground level.
- If a noise complaint(s) is registered, the contractor shall retain a City-approved noise consultant to conduct noise measurements at the use(s) that registered the complaint. The noise measurements shall be conducted for a minimum of one hour and shall include one-minute intervals. The consultant shall prepare a letter report summarizing the measurements and potential measures to reduce noise levels to the maximum extent feasible. The letter report shall include all measurement and calculation data used in determining impacts and resolutions. The letter report shall be provided to code enforcement for determining adequacy and recommendations, as well potential revocation of the variance if measures are inadequate.

Significance After Recommendation

Construction noise modeling was updated to reflect noise barriers from recommendation NOI-1. Estimated noise levels at adjacent residential property lines are summarized in Table 13 and ground-floor noise contours are shown on Figure 6.

Table 13 Mitigated Construction Noise Levels

Receiver Group	Description	Modeled Noise Level (dBA)[1]	Exceed Construction Threshold?
1-3	Western project site boundary	62 - 65	No
4-8	North of project site across alley	61 - 62	No
9-13	Northeast of project site across Casa Hermosa Dr	58 - 64	No
14-16	Eastern project site boundary	64 - 64	No
17-26	South of project site across West Orange Grove Ave	58 - 62	No

[1] Receivers 1, 3, 14, and 16 for the previous modeling iteration were located on the property line. As these receivers location would be inside the proposed noise barrier, receivers were set farther back. See Figure 6 for revised receiver locations.

As shown, with implementation of recommendation NOI-1, construction noise levels would be reduced to a level that does not exceed applicable noise level limits from the City Code. Impacts would be less than significant with the recommendation incorporated.

Operation

Following the methodology discussed in Section 3.3, HVAC noise levels were modeled and noise ground-floor contours were estimated. The project includes 6-foot split-face block wall along the perimeter property lines. As receivers on perimeter property lines would be inside the block wall, modeled receivers were set 10 feet beyond the property line. Estimated noise levels at adjacent residential property lines are summarized in Table 14 and ground-floor noise contours are shown on Figure 7. Noise modeling data is included as Appendix B.

Figure 5 Construction Noise Contours

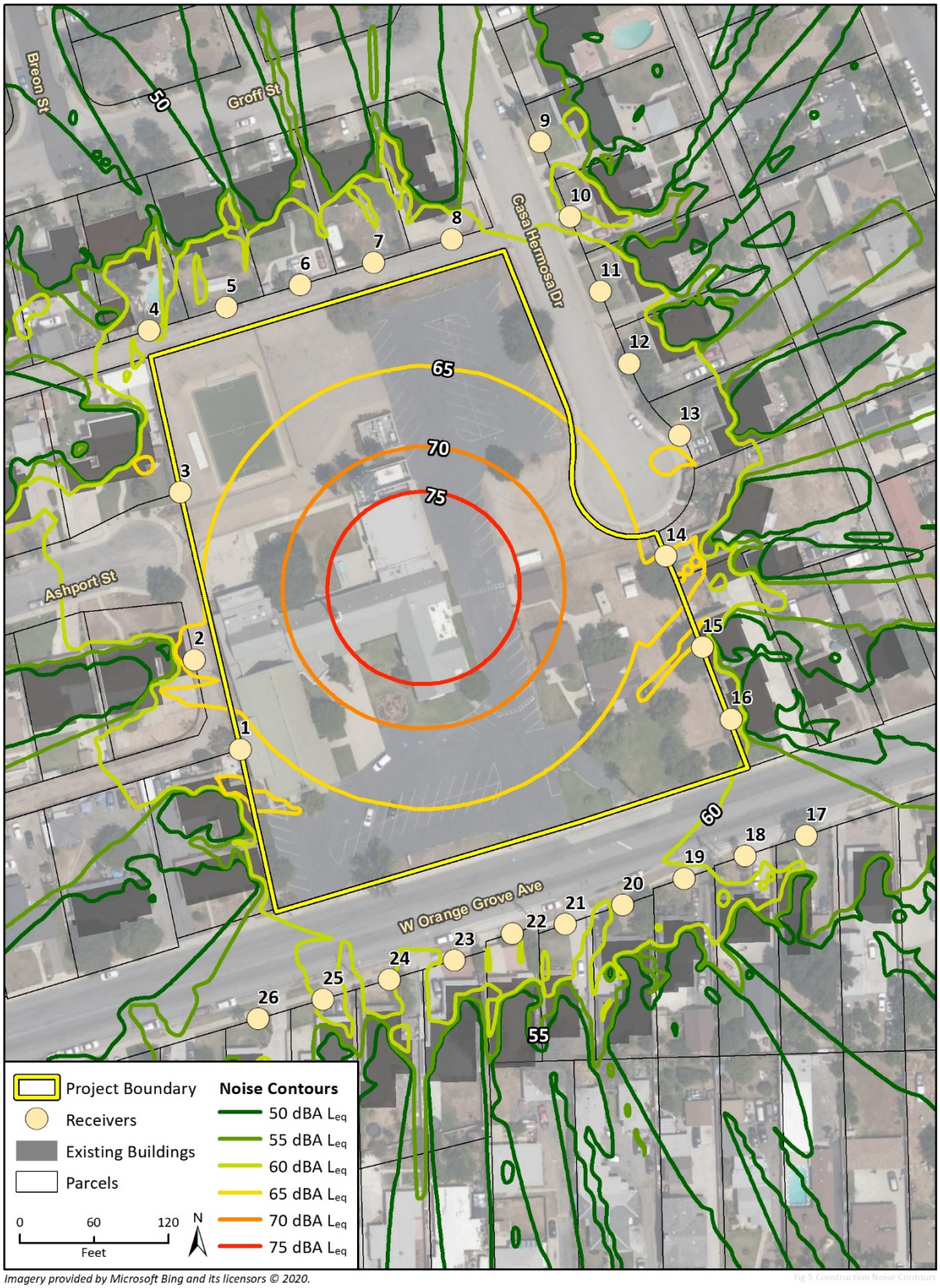


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Fig 5 Construction Noise Contours

Figure 6 Mitigated Construction Noise Contours

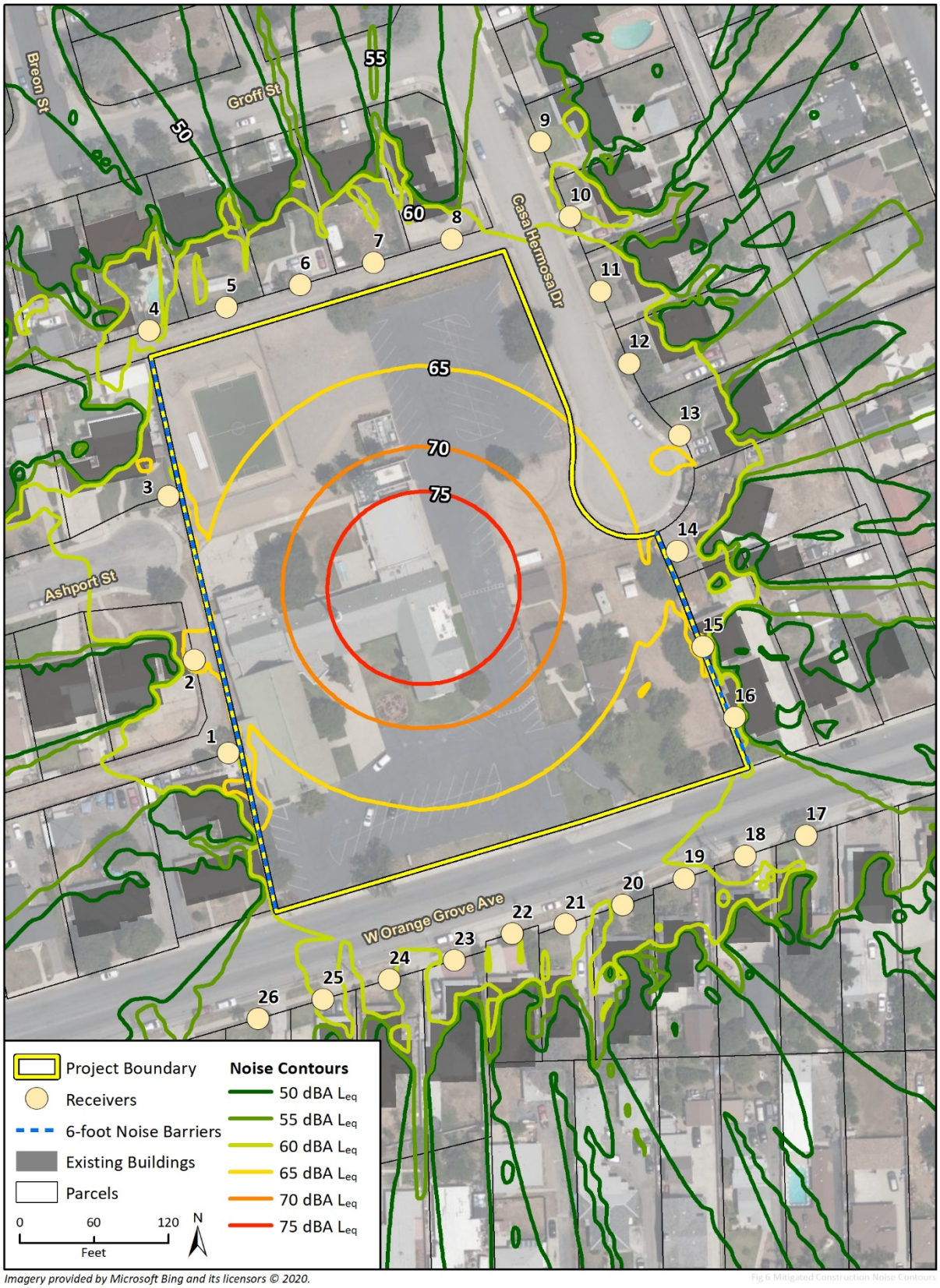

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Figure 7 HVAC Noise Contours

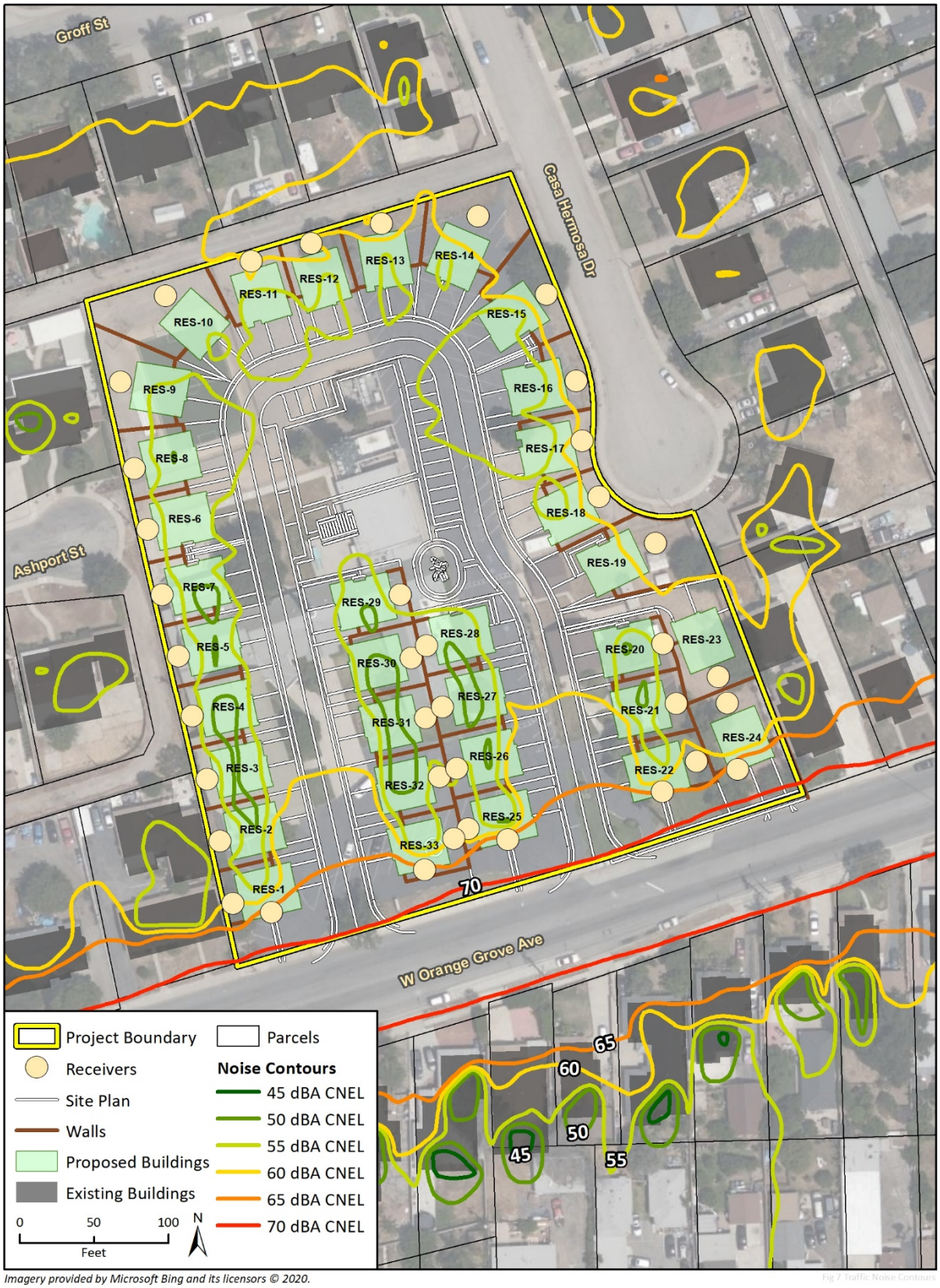

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Table 14 HVAC Noise Levels

Receiver Group	Description	Modeled Noise Level (dBA)	Exceed Daytime Standard?[1]	Exceed Nighttime Standard?[1]
1-6	Western project site boundary	39 - 43	No	No
7-11	North of project site across alley	34 - 38	No	No
12-14	Eastern project site boundary	36 - 39	No	No

[1] The applicable daytime threshold (7:00 a.m. to 10:00 p.m.) is 60 dBA L_{eq} at residential properties and the applicable nighttime threshold (10:00 p.m. to 7:00 a.m.) is 50 dBA L_{eq} at residential properties.

As shown, HVAC noise levels would not be anticipated to exceed applicable exterior noise standards from the City Code. Impacts would be less than significant.

Off-site Traffic Noise Increases

The project would generate new vehicle trips that would increase noise levels on nearby roadways. As discussed in the project Traffic Impact Analysis, the project is anticipated to generate 312 daily vehicle trips. The Traffic Impact Analysis study area includes roadway segments of Orange Grove Avenue, Weber Street, Lewis Street, and Hamilton Boulevard (Ganddini Group, Inc. 2020). Roadway segment volumes with and without project-generated traffic are shown in Table 15.

The project would not make alterations to roadway alignments or substantially change the vehicle classifications mix on local roadways. Therefore, the primary factor affecting off-site noise levels would be increased traffic volumes. Noise levels with and without project-generated traffic were developed based on algorithms and reference levels from the Federal Highway Administration's (FHWA's) Traffic Noise Model. Noise levels with and without project-generated traffic are shown in Table 15.

Table 15 Off-site Traffic Noise Increases

Roadway	Segment	Speed (mph)	Existing Volume[1] (ADT)	Existing + Project Volume[2] (ADT)	Existing Noise Level[1] (dBA)	Existing + Project Noise Level[2] (dBA)	Noise Level Increase (dBA)
W. Orange Grove Ave.	Dudley St. to Weber St.	35	8,200	8,300	63.2	63.3	0.1
	Weber St. to Lewis St.	35	9,200	9,400	63.7	63.8	0.1
	Dudley St. to Hamilton Blvd.	35	10,200	10,400	64.2	64.3	0.1
	East of Hamilton Blvd.	35	12,900	13,000	65.2	65.2	<0.1
Weber St.	South of Orange Grove Ave.	35	1,600	1,700	56.1	56.4	0.3
Lewis St.	North of Orange Grove Ave.	25	1,400	1,400	51.3	51.3	0.0
Hamilton Blvd.	South of Orange Grove Ave.	35	6,000	6,100	61.9	61.9	0.1

[1] Traffic Impact Analysis Opening Year (2023) Without Project Scenario.

[2] Traffic Impact Analysis Opening Year (2023) With Project Scenario.

Source: Ganddini Group, Inc. 2020; Caltrans 2017

As shown, traffic noise increases would reach as high as 0.3 dBA, which would not exceed the 3 dBA criterion for off-site traffic noise impacts. Impacts would be less than significant.

Traffic Noise-Land Use Compatibility

As discussed in Section 2.5, the Pomona General Plan Noise Element includes the Community Noise Exposure table that establishes criteria for evaluating whether a given land use is compatible with the existing noise environment. The project proposes single-family residential uses. For single-family residential development, ambient noise levels up to 60 CNEL are normally acceptable and ambient noise levels up to 70 CNEL are conditionally acceptable. Where conditionally acceptable, projects shall demonstrate that interior noise levels do not exceed 45 CNEL (City of Pomona 2014). Conventional construction, but with closed windows and fresh air supply systems or air conditioning will normally suffice.

Following the methodology discussed in Section 3.4, traffic noise levels were modeled at a series of receivers at the residential exterior use areas (backyards) and residential building façades were calculated Estimated noise levels are summarized in Table 16 and ground-floor noise contours are shown on Figure 8. Noise modeling data is included as Appendix B.

Table 16 Traffic Noise Levels

Receiver Group	Modeled Noise Level (dBA)	Compatibility
Receivers in the backyard of Residences 1-13; 20-21, and 23-32	54 - 60	Normally Acceptable
Receivers in the backyard of Residences 14-19, 22, and 33	61 - 62	Conditionally Acceptable
Receivers at the first-floor façade of residences fronting Orange Grove Ave	62 – 67	Conditionally Acceptable
Receivers at the second-floor façade of residences fronting Orange Grove Ave	66 - 67	Conditionally Acceptable

[1] The applicable daytime threshold (7:00 a.m. to 10:00 p.m.) is 65 dBA L_{eq} at residential properties.

As shown, proposed uses are conditionally compatible with the noise environment. The FHWA's guidelines indicate that modern building construction generally provides an exterior-to-interior noise level reduction of 20 to 35 dBA with closed windows (FHWA 2011). To comply with the California Energy Code (Title 24 Part 6), buildings in California are constructed with single- or double-glazed windows, which provide an exterior-to-interior noise level reduction of at least 25 dBA. Based on a noise exposure level of up to 67 CNEL and a noise attenuation of 25 dBA, the interior noise level at single-family residences facing Orange Grove Avenue would be up to 42 CNEL. Therefore, interior noise levels for the project would not exceed the City's interior noise standard of 45 CNEL. As such, the project would be compatible with the ambient noise environment.

Figure 8 Traffic Noise Contours

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Fig 8 HVAC Noise Contours

4.2 Issue 2

Issue:	Would the project result in generation of excessive ground-borne vibration or ground-borne noise levels? **LESS THAN SIGNIFICANT**

Construction activities known to generate excessive ground-borne vibration, such as pile driving, would not be conducted by the project. The greatest source of vibration associated with project construction would be a large dozer, which may be used within 15 feet of the nearest off-site sensitive receivers. Groundborne noise and vibration from common construction equipment such as large bulldozers, loaded trucks, and jackhammers would attenuate to less than 0.2 PPV at 12, 10, and 5 feet, respectively. As the project construction is not anticipated to include operation of equipment within these distances, groundborne noise and vibration impacts associated with project construction would be less than significant.

Operation of the project would not include any substantial vibration sources. Therefore, operational vibration impacts would be less than significant.

4.3 Issue 3

Issue:	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 airport nearest to the project site, Brackett Field, is located approximately 1.4 miles to the north. The project would not be located within the noise contours of the airport, as shown in Exhibit 5 of the Brackett Field Airport Land Use Compatibility Plan (Los Angeles County Airport Land Use Commission 2018). Therefore, no substantial noise exposure from airport noise would occur to construction workers, users, or residences of the project, and no impacts would occur.

5 Conclusion

The project would generate both temporary construction-related noise and long-term noise associated with operation.

The project's noise exposure from construction may exceed the noise level limit from the City Code of 65 dBA L_{eq} (one-hour) at residential property lines along the western and eastern boundaries of the project site. Implementation of recommendation NOI-1, Temporary Construction Sound Barriers, would include installation of temporary noise barriers and/or blankets with a minimum height of six feet shall be constructed along the western project site boundary and along portions of eastern project site boundary. With implementation of recommendation NOI-1, construction noise levels would be reduced to a level that does not exceed applicable noise level limits from the City Code and impacts would be less than significant with mitigation incorporated.

The project's stationary noise sources (HVAC units) would not be anticipated to exceed applicable daytime or nighttime exterior noise standards from the City Code City standards at the nearest property lines. Therefore, stationary noise impacts would be less than significant.

Project-generated traffic would generate an increase of up to approximately 0.3 dBA at adjacent roadways. This is below the threshold of 3 dBA; therefore, the off-site traffic noise increase would be less than significant.

Traffic noise levels at the residential exterior use areas (backyards) would reach 62 CNEL and traffic noise levels at residential building façades would reach 67 CNEL. Therefore, based on community noise exposure standards from the General Plan the proposed uses are conditionally compatible with the noise environment. Standard construction consistent with the California Energy Code (Title 24 Part 6) would be anticipated to achieve an exterior-to-interior noise level reduction of at least 25 dBA. Therefore, interior noise levels for the project would not exceed the City's interior noise standard of 45 CNEL. As such, the project would be compatible with the ambient noise environment.

The project would generate groundborne vibration during construction, but vibration would not exceed the applicable thresholds at the residential structures adjacent. Therefore, construction-related vibration impacts would be less than significant.

The project site is outside the noise contour for the nearest airport, Brackett Field. Therefore, no substantial noise exposure from airport noise would occur to construction workers, users, or residences of the project, and no impacts would occur.

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Appendix A

Noise Measurement Data

Noise Measurement 1

Project Name	Pomona 33
Project Number	20-10059
Data Logger 2	
Duration (seconds)	3
Weighting	A
Response	SLOW
Range	40-100
Lmin	44
Lmax	67.3
Time	10/27/2020 14:44
SEL	79.8
Leq	**50.5**

No.s	Date	Time	dB
1	10/27/2020	14:35:11	47.3
2	10/27/2020	14:35:14	46.6
3	10/27/2020	14:35:17	45.3
4	10/27/2020	14:35:20	44.7
5	10/27/2020	14:35:23	44.9
6	10/27/2020	14:35:26	44.9
7	10/27/2020	14:35:29	46.1
8	10/27/2020	14:35:32	47.3
9	10/27/2020	14:35:35	48.0
10	10/27/2020	14:35:38	47.1
11	10/27/2020	14:35:41	46.5
12	10/27/2020	14:35:44	45.7
13	10/27/2020	14:35:47	45.1
14	10/27/2020	14:35:50	45.2
15	10/27/2020	14:35:53	46.7
16	10/27/2020	14:35:56	45.0
17	10/27/2020	14:35:59	44.6
18	10/27/2020	14:36:02	44.0
19	10/27/2020	14:36:05	44.1
20	10/27/2020	14:36:08	45.3
21	10/27/2020	14:36:11	44.0
22	10/27/2020	14:36:14	44.7
23	10/27/2020	14:36:17	46.9
24	10/27/2020	14:36:20	45.5
25	10/27/2020	14:36:23	47.4
26	10/27/2020	14:36:26	44.9
27	10/27/2020	14:36:29	44.1
28	10/27/2020	14:36:32	45.5
29	10/27/2020	14:36:35	45.5
30	10/27/2020	14:36:38	46.7
31	10/27/2020	14:36:41	46.4

32	10/27/2020	14:36:44	45.6
33	10/27/2020	14:36:47	45.4
34	10/27/2020	14:36:50	45.5
35	10/27/2020	14:36:53	45.2
36	10/27/2020	14:36:56	46.0
37	10/27/2020	14:36:59	45.4
38	10/27/2020	14:37:02	47.6
39	10/27/2020	14:37:05	47.2
40	10/27/2020	14:37:08	47.8
41	10/27/2020	14:37:11	48.4
42	10/27/2020	14:37:14	48.0
43	10/27/2020	14:37:17	49.4
44	10/27/2020	14:37:20	51.7
45	10/27/2020	14:37:23	51.5
46	10/27/2020	14:37:26	48.7
47	10/27/2020	14:37:29	47.5
48	10/27/2020	14:37:32	49.1
49	10/27/2020	14:37:35	47.6
50	10/27/2020	14:37:38	46.7
51	10/27/2020	14:37:41	50.7
52	10/27/2020	14:37:44	47.5
53	10/27/2020	14:37:47	49.3
54	10/27/2020	14:37:50	47.1
55	10/27/2020	14:37:53	46.5
56	10/27/2020	14:37:56	46.2
57	10/27/2020	14:37:59	46.8
58	10/27/2020	14:38:02	46.6
59	10/27/2020	14:38:05	46.4
60	10/27/2020	14:38:08	45.6
61	10/27/2020	14:38:11	46.3
62	10/27/2020	14:38:14	46.1
63	10/27/2020	14:38:17	44.5
64	10/27/2020	14:38:20	44.4
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66	10/27/2020	14:38:26	45.8
67	10/27/2020	14:38:29	45.8
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73	10/27/2020	14:38:47	54.7
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75	10/27/2020	14:38:53	49.0
76	10/27/2020	14:38:56	48.8
77	10/27/2020	14:38:59	48.4
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79	10/27/2020	14:39:05	48.8
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82	10/27/2020	14:39:14	50.6
83	10/27/2020	14:39:17	51.9
84	10/27/2020	14:39:20	52.2
85	10/27/2020	14:39:23	53.4
86	10/27/2020	14:39:26	52.7
87	10/27/2020	14:39:29	50.6
88	10/27/2020	14:39:32	51.1
89	10/27/2020	14:39:35	45.9
90	10/27/2020	14:39:38	45.5
91	10/27/2020	14:39:41	46.1
92	10/27/2020	14:39:44	44.3
93	10/27/2020	14:39:47	44.3
94	10/27/2020	14:39:50	44.3
95	10/27/2020	14:39:53	46.1
96	10/27/2020	14:39:56	46.9
97	10/27/2020	14:39:59	49.8
98	10/27/2020	14:40:02	49.2
99	10/27/2020	14:40:05	49.9
100	10/27/2020	14:40:08	47.2
101	10/27/2020	14:40:11	46.6
102	10/27/2020	14:40:14	53.4
103	10/27/2020	14:40:17	46.3
104	10/27/2020	14:40:20	44.9
105	10/27/2020	14:40:23	44.5
106	10/27/2020	14:40:26	46.0
107	10/27/2020	14:40:29	45.8
108	10/27/2020	14:40:32	45.6
109	10/27/2020	14:40:35	46.4
110	10/27/2020	14:40:38	45.2
111	10/27/2020	14:40:41	46.2
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116	10/27/2020	14:40:56	46.1
117	10/27/2020	14:40:59	48.3
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119	10/27/2020	14:41:05	46.6
120	10/27/2020	14:41:08	45.9
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122	10/27/2020	14:41:14	46.0
123	10/27/2020	14:41:17	45.5
124	10/27/2020	14:41:20	45.6
125	10/27/2020	14:41:23	46.4

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207	10/27/2020	14:45:29	46.0
208	10/27/2020	14:45:32	45.8
209	10/27/2020	14:45:35	45.4
210	10/27/2020	14:45:38	45.8
211	10/27/2020	14:45:41	45.3
212	10/27/2020	14:45:44	46.3
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223	10/27/2020	14:46:17	46.0
224	10/27/2020	14:46:20	49.2
225	10/27/2020	14:46:23	47.6
226	10/27/2020	14:46:26	47.8
227	10/27/2020	14:46:29	49.2
228	10/27/2020	14:46:32	47.9
229	10/27/2020	14:46:35	49.0
230	10/27/2020	14:46:38	50.6
231	10/27/2020	14:46:41	49.8
232	10/27/2020	14:46:44	47.5
233	10/27/2020	14:46:47	47.8
234	10/27/2020	14:46:50	48.0
235	10/27/2020	14:46:53	48.6
236	10/27/2020	14:46:56	49.4
237	10/27/2020	14:46:59	48.3
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242	10/27/2020	14:47:14	48.4
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249	10/27/2020	14:47:35	46.9
250	10/27/2020	14:47:38	48.0
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255	10/27/2020	14:47:53	47.4
256	10/27/2020	14:47:56	47.6
257	10/27/2020	14:47:59	47.5
258	10/27/2020	14:48:02	48.1
259	10/27/2020	14:48:05	48.1
260	10/27/2020	14:48:08	48.8
261	10/27/2020	14:48:11	48.3
262	10/27/2020	14:48:14	48.6
263	10/27/2020	14:48:17	47.0
264	10/27/2020	14:48:20	48.4
265	10/27/2020	14:48:23	50.5
266	10/27/2020	14:48:26	48.8

267	10/27/2020	14:48:29	49.2
268	10/27/2020	14:48:32	48.2
269	10/27/2020	14:48:35	47.1
270	10/27/2020	14:48:38	47.7
271	10/27/2020	14:48:41	47.2
272	10/27/2020	14:48:44	47.6
273	10/27/2020	14:48:47	48.8
274	10/27/2020	14:48:50	49.7
275	10/27/2020	14:48:53	48.6
276	10/27/2020	14:48:56	47.4
277	10/27/2020	14:48:59	47.8
278	10/27/2020	14:49:02	47.6
279	10/27/2020	14:49:05	48.5
280	10/27/2020	14:49:08	46.7
281	10/27/2020	14:49:11	52.2
282	10/27/2020	14:49:14	49.1
283	10/27/2020	14:49:17	47.4
284	10/27/2020	14:49:20	46.7
285	10/27/2020	14:49:23	56.8
286	10/27/2020	14:49:26	49.6
287	10/27/2020	14:49:29	48.7
288	10/27/2020	14:49:32	48.5
289	10/27/2020	14:49:35	49.0
290	10/27/2020	14:49:38	48.4
291	10/27/2020	14:49:41	48.1
292	10/27/2020	14:49:44	47.7
293	10/27/2020	14:49:47	48.0
294	10/27/2020	14:49:50	47.3
295	10/27/2020	14:49:53	49.3
296	10/27/2020	14:49:56	48
297	10/27/2020	14:49:59	49.6
298	10/27/2020	14:50:02	47.6
299	10/27/2020	14:50:05	47.6
300	10/27/2020	14:50:08	46.8

Noise Measurement 2

Project Name	Pomona 33
Project Number	20-10059
Data Logger 2	
Duration (seconds)	3
Weighting	A
Response	SLOW
Range	40-100
Lmin	46.4
Lmax	71.4
Time	10/27/2020 14:53
SEL	81.2
Leq	**52.4**

No.s	Date	Time	dB
1	10/27/2020	14:53:12	71.4
2	10/27/2020	14:53:15	60.2
3	10/27/2020	14:53:18	51.3
4	10/27/2020	14:53:21	50.8
5	10/27/2020	14:53:24	51.2
6	10/27/2020	14:53:27	50.2
7	10/27/2020	14:53:30	50.2
8	10/27/2020	14:53:33	48.9
9	10/27/2020	14:53:36	50.6
10	10/27/2020	14:53:39	50.3
11	10/27/2020	14:53:42	49.4
12	10/27/2020	14:53:45	48.6
13	10/27/2020	14:53:48	49.2
14	10/27/2020	14:53:51	49.4
15	10/27/2020	14:53:54	50.2
16	10/27/2020	14:53:57	53.4
17	10/27/2020	14:54:00	58.1
18	10/27/2020	14:54:03	65.3
19	10/27/2020	14:54:06	64.2
20	10/27/2020	14:54:09	61.3
21	10/27/2020	14:54:12	54.1
22	10/27/2020	14:54:15	50.8
23	10/27/2020	14:54:18	48.6
24	10/27/2020	14:54:21	48.6
25	10/27/2020	14:54:24	47.7
26	10/27/2020	14:54:27	49.4
27	10/27/2020	14:54:30	51.3
28	10/27/2020	14:54:33	50.0
29	10/27/2020	14:54:36	49.9
30	10/27/2020	14:54:39	51.1
31	10/27/2020	14:54:42	50.8

32	10/27/2020	14:54:45	51.3
33	10/27/2020	14:54:48	52.1
34	10/27/2020	14:54:51	50.1
35	10/27/2020	14:54:54	50.1
36	10/27/2020	14:54:57	50.1
37	10/27/2020	14:55:00	50.9
38	10/27/2020	14:55:03	51.2
39	10/27/2020	14:55:06	51.4
40	10/27/2020	14:55:09	49.5
41	10/27/2020	14:55:12	51.3
42	10/27/2020	14:55:15	48.7
43	10/27/2020	14:55:18	48.8
44	10/27/2020	14:55:21	48.1
45	10/27/2020	14:55:24	48.2
46	10/27/2020	14:55:27	47.1
47	10/27/2020	14:55:30	48.0
48	10/27/2020	14:55:33	47.1
49	10/27/2020	14:55:36	46.4
50	10/27/2020	14:55:39	46.9
51	10/27/2020	14:55:42	47.6
52	10/27/2020	14:55:45	47.6
53	10/27/2020	14:55:48	50.7
54	10/27/2020	14:55:51	51.1
55	10/27/2020	14:55:54	50.0
56	10/27/2020	14:55:57	49.0
57	10/27/2020	14:56:00	48.9
58	10/27/2020	14:56:03	49.3
59	10/27/2020	14:56:06	49.4
60	10/27/2020	14:56:09	48.8
61	10/27/2020	14:56:12	49.1
62	10/27/2020	14:56:15	50.9
63	10/27/2020	14:56:18	49.5
64	10/27/2020	14:56:21	51.0
65	10/27/2020	14:56:24	49.8
66	10/27/2020	14:56:27	49.5
67	10/27/2020	14:56:30	48.8
68	10/27/2020	14:56:33	48.4
69	10/27/2020	14:56:36	48.7
70	10/27/2020	14:56:39	48.3
71	10/27/2020	14:56:42	48.0
72	10/27/2020	14:56:45	48.5
73	10/27/2020	14:56:48	48.3
74	10/27/2020	14:56:51	48.9
75	10/27/2020	14:56:54	48.4
76	10/27/2020	14:56:57	48.6
77	10/27/2020	14:57:00	47.8
78	10/27/2020	14:57:03	48.2

79	10/27/2020	14:57:06	48.0
80	10/27/2020	14:57:09	48.0
81	10/27/2020	14:57:12	50.2
82	10/27/2020	14:57:15	48.8
83	10/27/2020	14:57:18	48.4
84	10/27/2020	14:57:21	51.1
85	10/27/2020	14:57:24	51.2
86	10/27/2020	14:57:27	49.4
87	10/27/2020	14:57:30	50.0
88	10/27/2020	14:57:33	51.7
89	10/27/2020	14:57:36	57.5
90	10/27/2020	14:57:39	57.2
91	10/27/2020	14:57:42	51.3
92	10/27/2020	14:57:45	50.3
93	10/27/2020	14:57:48	52.2
94	10/27/2020	14:57:51	51.9
95	10/27/2020	14:57:54	49.6
96	10/27/2020	14:57:57	49.5
97	10/27/2020	14:58:00	50.9
98	10/27/2020	14:58:03	49.2
99	10/27/2020	14:58:06	48.6
100	10/27/2020	14:58:09	48.5
101	10/27/2020	14:58:12	48.4
102	10/27/2020	14:58:15	53.9
103	10/27/2020	14:58:18	49.0
104	10/27/2020	14:58:21	48.5
105	10/27/2020	14:58:24	48.1
106	10/27/2020	14:58:27	48.2
107	10/27/2020	14:58:30	47.5
108	10/27/2020	14:58:33	49.1
109	10/27/2020	14:58:36	49.2
110	10/27/2020	14:58:39	49.8
111	10/27/2020	14:58:42	50.0
112	10/27/2020	14:58:45	48.1
113	10/27/2020	14:58:48	48.6
114	10/27/2020	14:58:51	48.4
115	10/27/2020	14:58:54	50.2
116	10/27/2020	14:58:57	52.9
117	10/27/2020	14:59:00	49.4
118	10/27/2020	14:59:03	49.3
119	10/27/2020	14:59:06	48.3
120	10/27/2020	14:59:09	47.7
121	10/27/2020	14:59:12	48.3
122	10/27/2020	14:59:15	48.1
123	10/27/2020	14:59:18	47.5
124	10/27/2020	14:59:21	56.7
125	10/27/2020	14:59:24	49.9

126	10/27/2020	14:59:27	49.4
127	10/27/2020	14:59:30	49.0
128	10/27/2020	14:59:33	48.8
129	10/27/2020	14:59:36	49.4
130	10/27/2020	14:59:39	48.9
131	10/27/2020	14:59:42	48.7
132	10/27/2020	14:59:45	48.7
133	10/27/2020	14:59:48	48.5
134	10/27/2020	14:59:51	48.8
135	10/27/2020	14:59:54	51.3
136	10/27/2020	14:59:57	51.0
137	10/27/2020	15:00:00	49.1
138	10/27/2020	15:00:03	48.2
139	10/27/2020	15:00:06	49.0
140	10/27/2020	15:00:09	49.8
141	10/27/2020	15:00:12	49.9
142	10/27/2020	15:00:15	50.4
143	10/27/2020	15:00:18	49.1
144	10/27/2020	15:00:21	49.9
145	10/27/2020	15:00:24	50.9
146	10/27/2020	15:00:27	49.7
147	10/27/2020	15:00:30	49.3
148	10/27/2020	15:00:33	48.7
149	10/27/2020	15:00:36	48.5
150	10/27/2020	15:00:39	49.1
151	10/27/2020	15:00:42	49.9
152	10/27/2020	15:00:45	49.0
153	10/27/2020	15:00:48	49.6
154	10/27/2020	15:00:51	49.3
155	10/27/2020	15:00:54	51.8
156	10/27/2020	15:00:57	51.1
157	10/27/2020	15:01:00	50.2
158	10/27/2020	15:01:03	50.0
159	10/27/2020	15:01:06	49.8
160	10/27/2020	15:01:09	49.2
161	10/27/2020	15:01:12	47.8
162	10/27/2020	15:01:15	49.3
163	10/27/2020	15:01:18	48.3
164	10/27/2020	15:01:21	48.5
165	10/27/2020	15:01:24	48.1
166	10/27/2020	15:01:27	48.4
167	10/27/2020	15:01:30	49.1
168	10/27/2020	15:01:33	48.3
169	10/27/2020	15:01:36	48.2
170	10/27/2020	15:01:39	48.8
171	10/27/2020	15:01:42	49.9
172	10/27/2020	15:01:45	50.4

173	10/27/2020	15:01:48	49.8
174	10/27/2020	15:01:51	49.5
175	10/27/2020	15:01:54	48.8
176	10/27/2020	15:01:57	48.7
177	10/27/2020	15:02:00	49.0
178	10/27/2020	15:02:03	51.4
179	10/27/2020	15:02:06	51.1
180	10/27/2020	15:02:09	50.4
181	10/27/2020	15:02:12	54.1
182	10/27/2020	15:02:15	52.1
183	10/27/2020	15:02:18	50.9
184	10/27/2020	15:02:21	49.5
185	10/27/2020	15:02:24	48.9
186	10/27/2020	15:02:27	49.5
187	10/27/2020	15:02:30	48.7
188	10/27/2020	15:02:33	48.8
189	10/27/2020	15:02:36	48.7
190	10/27/2020	15:02:39	47.6
191	10/27/2020	15:02:42	47.6
192	10/27/2020	15:02:45	48.0
193	10/27/2020	15:02:48	49.1
194	10/27/2020	15:02:51	48.3
195	10/27/2020	15:02:54	48.0
196	10/27/2020	15:02:57	48.2
197	10/27/2020	15:03:00	48.9
198	10/27/2020	15:03:03	48.1
199	10/27/2020	15:03:06	47.8
200	10/27/2020	15:03:09	48.3
201	10/27/2020	15:03:12	49.1
202	10/27/2020	15:03:15	50.7
203	10/27/2020	15:03:18	50.1
204	10/27/2020	15:03:21	47.6
205	10/27/2020	15:03:24	47.7
206	10/27/2020	15:03:27	47.5
207	10/27/2020	15:03:30	49.2
208	10/27/2020	15:03:33	49.0
209	10/27/2020	15:03:36	48.2
210	10/27/2020	15:03:39	48.1
211	10/27/2020	15:03:42	47.8
212	10/27/2020	15:03:45	48.2
213	10/27/2020	15:03:48	55.5
214	10/27/2020	15:03:51	53.6
215	10/27/2020	15:03:54	49.2
216	10/27/2020	15:03:57	48.2
217	10/27/2020	15:04:00	48.0
218	10/27/2020	15:04:03	47.8
219	10/27/2020	15:04:06	48.4

220	10/27/2020	15:04:09	48.1
221	10/27/2020	15:04:12	49.4
222	10/27/2020	15:04:15	49.1
223	10/27/2020	15:04:18	48.2
224	10/27/2020	15:04:21	46.8
225	10/27/2020	15:04:24	47.8
226	10/27/2020	15:04:27	50.5
227	10/27/2020	15:04:30	49.4
228	10/27/2020	15:04:33	49.3
229	10/27/2020	15:04:36	48.2
230	10/27/2020	15:04:39	47.8
231	10/27/2020	15:04:42	48.9
232	10/27/2020	15:04:45	50.2
233	10/27/2020	15:04:48	48.5
234	10/27/2020	15:04:51	49.0
235	10/27/2020	15:04:54	48.8
236	10/27/2020	15:04:57	49.6
237	10/27/2020	15:05:00	50.0
238	10/27/2020	15:05:03	48.8
239	10/27/2020	15:05:06	48.1
240	10/27/2020	15:05:09	48.7
241	10/27/2020	15:05:12	51.1
242	10/27/2020	15:05:15	51.4
243	10/27/2020	15:05:18	49.1
244	10/27/2020	15:05:21	50.4
245	10/27/2020	15:05:24	48.6
246	10/27/2020	15:05:27	50.7
247	10/27/2020	15:05:30	58.0
248	10/27/2020	15:05:33	51.2
249	10/27/2020	15:05:36	49.2
250	10/27/2020	15:05:39	49.8
251	10/27/2020	15:05:42	50.0
252	10/27/2020	15:05:45	52.6
253	10/27/2020	15:05:48	49.1
254	10/27/2020	15:05:51	49.5
255	10/27/2020	15:05:54	49.5
256	10/27/2020	15:05:57	49.3
257	10/27/2020	15:06:00	49.2
258	10/27/2020	15:06:03	50.6
259	10/27/2020	15:06:06	52.2
260	10/27/2020	15:06:09	52.5
261	10/27/2020	15:06:12	51.5
262	10/27/2020	15:06:15	50.7
263	10/27/2020	15:06:18	48.5
264	10/27/2020	15:06:21	46.7
265	10/27/2020	15:06:24	47.4
266	10/27/2020	15:06:27	47.2

267	10/27/2020	15:06:30	46.8
268	10/27/2020	15:06:33	47.5
269	10/27/2020	15:06:36	48.0
270	10/27/2020	15:06:39	47.2
271	10/27/2020	15:06:42	47.6
272	10/27/2020	15:06:45	47.6
273	10/27/2020	15:06:48	47.2
274	10/27/2020	15:06:51	50.2
275	10/27/2020	15:06:54	50.6
276	10/27/2020	15:06:57	48.3
277	10/27/2020	15:07:00	49.0
278	10/27/2020	15:07:03	49.6
279	10/27/2020	15:07:06	48.5
280	10/27/2020	15:07:09	48.8
281	10/27/2020	15:07:12	50.7
282	10/27/2020	15:07:15	49.8
283	10/27/2020	15:07:18	51.3
284	10/27/2020	15:07:21	50.7
285	10/27/2020	15:07:24	49.8
286	10/27/2020	15:07:27	51.1
287	10/27/2020	15:07:30	50.2
288	10/27/2020	15:07:33	50.7
289	10/27/2020	15:07:36	49.9
290	10/27/2020	15:07:39	52.4
291	10/27/2020	15:07:42	51.6
292	10/27/2020	15:07:45	50.0
293	10/27/2020	15:07:48	51.9
294	10/27/2020	15:07:51	50.9
295	10/27/2020	15:07:54	51.8
296	10/27/2020	15:07:57	51.5
297	10/27/2020	15:08:00	50.4
298	10/27/2020	15:08:03	51.7
299	10/27/2020	15:08:06	49.6
300	10/27/2020	15:08:09	50.9

Noise Measurement 3

Project Name	Pomona 33
Project Number	20-10059
Data Logger 2	
Duration (seconds)	3
Weighting	A
Response	SLOW
Range	40-100
Lmin	43.5
Lmax	80.1
Time	10/202020 15:12
SEL	99.5
Leq	**68.7**

No.s	Date	Time	dB	Sound Energy
1	10/27/2020	3:12:51 PM	66.9	14693364.58
2	10/27/2020	3:12:54 PM	66.2	12506081.5
3	10/27/2020	3:12:57 PM	69.7	27997629.02
4	10/27/2020	3:13:00 PM	65.8	11405681.89
5	10/27/2020	3:13:03 PM	70.9	36908063.12
6	10/27/2020	3:13:06 PM	61.7	4437325.165
7	10/27/2020	3:13:09 PM	60.5	3366055.363
8	10/27/2020	3:13:12 PM	69.6	27360325.18
9	10/27/2020	3:13:15 PM	65.3	10165324.68
10	10/27/2020	3:13:18 PM	71.4	41411527.94
11	10/27/2020	3:13:21 PM	70.9	36908063.12
12	10/27/2020	3:13:24 PM	62.1	4865430.292
13	10/27/2020	3:13:27 PM	66.3	12797385.56
14	10/27/2020	3:13:30 PM	63.2	6267888.393
15	10/27/2020	3:13:33 PM	71.8	45406837.45
16	10/27/2020	3:13:36 PM	68.3	20282489.26
17	10/27/2020	3:13:39 PM	71.5	42376126.34
18	10/27/2020	3:13:42 PM	62.3	5094730.957
19	10/27/2020	3:13:45 PM	67.6	17263198.12
20	10/27/2020	3:13:48 PM	69.8	28649777.58
21	10/27/2020	3:13:51 PM	67.8	18076787.58
22	10/27/2020	3:13:54 PM	61.7	4437325.165
23	10/27/2020	3:13:57 PM	65.2	9933933.644
24	10/27/2020	3:14:00 PM	69.6	27360325.18
25	10/27/2020	3:14:03 PM	63.2	6267888.393
26	10/27/2020	3:14:06 PM	61.8	4540683.745
27	10/27/2020	3:14:09 PM	71.7	44373251.65
28	10/27/2020	3:14:12 PM	61.2	3954770.216
29	10/27/2020	3:14:15 PM	54.5	845514.8794
30	10/27/2020	3:14:18 PM	54.8	905985.5161

31	10/27/2020	3:14:21 PM	65.7	11146056.87
32	10/27/2020	3:14:24 PM	66.4	13095474.97
33	10/27/2020	3:14:27 PM	58.6	2173307.88
34	10/27/2020	3:14:30 PM	68.1	19369626.87
35	10/27/2020	3:14:33 PM	65.6	10892341.64
36	10/27/2020	3:14:36 PM	67.3	16110953.89
37	10/27/2020	3:14:39 PM	59.9	2931711.663
38	10/27/2020	3:14:42 PM	55.1	970780.9708
39	10/27/2020	3:14:45 PM	69.6	27360325.18
40	10/27/2020	3:14:48 PM	68.4	20754929.13
41	10/27/2020	3:14:51 PM	67.7	17665309.66
42	10/27/2020	3:14:54 PM	67.3	16110953.89
43	10/27/2020	3:14:57 PM	71.0	37767762.35
44	10/27/2020	3:15:00 PM	67.4	16486226.22
45	10/27/2020	3:15:03 PM	68.8	22757327.25
46	10/27/2020	3:15:06 PM	65.3	10165324.68
47	10/27/2020	3:15:09 PM	69.7	27997629.02
48	10/27/2020	3:15:12 PM	71.5	42376126.34
49	10/27/2020	3:15:15 PM	70.8	36067933.04
50	10/27/2020	3:15:18 PM	68.7	22239307.24
51	10/27/2020	3:15:21 PM	66.7	14032054.24
52	10/27/2020	3:15:24 PM	60.6	3444460.864
53	10/27/2020	3:15:27 PM	57.0	1503561.701
54	10/27/2020	3:15:30 PM	70.4	32894345.88
55	10/27/2020	3:15:33 PM	62.7	5586261.41
56	10/27/2020	3:15:36 PM	58.0	1892872.033
57	10/27/2020	3:15:39 PM	69.4	26128907.7
58	10/27/2020	3:15:42 PM	61.4	4141152.794
59	10/27/2020	3:15:45 PM	57.7	1766530.966
60	10/27/2020	3:15:48 PM	72.8	57163821.54
61	10/27/2020	3:15:51 PM	73.5	67161634.16
62	10/27/2020	3:15:54 PM	64.0	7535659.295
63	10/27/2020	3:15:57 PM	57.1	1538584.152
64	10/27/2020	3:16:00 PM	54.7	885362.768
65	10/27/2020	3:16:03 PM	67.1	15385841.52
66	10/27/2020	3:16:06 PM	68.8	22757327.25
67	10/27/2020	3:16:09 PM	65.0	9486832.981
68	10/27/2020	3:16:12 PM	68.0	18928720.33
69	10/27/2020	3:16:15 PM	67.8	18076787.58
70	10/27/2020	3:16:18 PM	59.2	2495291.313
71	10/27/2020	3:16:21 PM	53.1	612521.3834
72	10/27/2020	3:16:24 PM	55.0	948683.2981
73	10/27/2020	3:16:27 PM	74.2	78908039.76
74	10/27/2020	3:16:30 PM	66.6	13712645.69
75	10/27/2020	3:16:33 PM	60.0	3000000
76	10/27/2020	3:16:36 PM	59.9	2931711.663
77	10/27/2020	3:16:39 PM	67.9	18497850.06

78	10/27/2020	3:16:42 PM	59.7	2799762.902
79	10/27/2020	3:16:45 PM	59.2	2495291.313
80	10/27/2020	3:16:48 PM	60.8	3606793.304
81	10/27/2020	3:16:51 PM	72.1	48654302.92
82	10/27/2020	3:16:54 PM	72.3	50947309.57
83	10/27/2020	3:16:57 PM	66.2	12506081.5
84	10/27/2020	3:17:00 PM	68.2	19820803.44
85	10/27/2020	3:17:03 PM	69.2	24952913.13
86	10/27/2020	3:17:06 PM	71.2	39547702.16
87	10/27/2020	3:17:09 PM	68.4	20754929.13
88	10/27/2020	3:17:12 PM	65.1	9707809.708
89	10/27/2020	3:17:15 PM	67.4	16486226.22
90	10/27/2020	3:17:18 PM	58.0	1892872.033
91	10/27/2020	3:17:21 PM	51.7	443732.5165
92	10/27/2020	3:17:24 PM	51.2	395477.0216
93	10/27/2020	3:17:27 PM	58.6	2173307.88
94	10/27/2020	3:17:30 PM	76.4	130954749.7
95	10/27/2020	3:17:33 PM	68.0	18928720.33
96	10/27/2020	3:17:36 PM	62.5	5334838.23
97	10/27/2020	3:17:39 PM	72.8	57163821.54
98	10/27/2020	3:17:42 PM	72.1	48654302.92
99	10/27/2020	3:17:45 PM	69.1	24384915.48
100	10/27/2020	3:17:48 PM	66.2	12506081.5
101	10/27/2020	3:17:51 PM	68.6	21733078.8
102	10/27/2020	3:17:54 PM	70.3	32145579.16
103	10/27/2020	3:17:57 PM	71.9	46464498.57
104	10/27/2020	3:18:00 PM	73.8	71964987.57
105	10/27/2020	3:18:03 PM	67.0	15035617.01
106	10/27/2020	3:18:06 PM	62.2	4978760.722
107	10/27/2020	3:18:09 PM	61.4	4141152.794
108	10/27/2020	3:18:12 PM	65.1	9707809.708
109	10/27/2020	3:18:15 PM	68.1	19369626.87
110	10/27/2020	3:18:18 PM	59.8	2864977.758
111	10/27/2020	3:18:21 PM	52.4	521340.2486
112	10/27/2020	3:18:24 PM	51.4	414115.2794
113	10/27/2020	3:18:27 PM	47.2	157442.2381
114	10/27/2020	3:18:30 PM	46.7	140320.5424
115	10/27/2020	3:18:33 PM	46.5	134005.0776
116	10/27/2020	3:18:36 PM	43.9	73641.26747
117	10/27/2020	3:18:39 PM	43.5	67161.63416
118	10/27/2020	3:18:42 PM	45.8	114056.8189
119	10/27/2020	3:18:45 PM	47.5	168702.3976
120	10/27/2020	3:18:48 PM	51.9	464644.9857
121	10/27/2020	3:18:51 PM	60.3	3214557.916
122	10/27/2020	3:18:54 PM	67.4	16486226.22
123	10/27/2020	3:18:57 PM	62.3	5094730.957
124	10/27/2020	3:19:00 PM	67.5	16870239.76

125	10/27/2020	3:19:03 PM	69.9	29317116.63
126	10/27/2020	3:19:06 PM	71.2	39547702.16
127	10/27/2020	3:19:09 PM	74.0	75356592.95
128	10/27/2020	3:19:12 PM	71.7	44373251.65
129	10/27/2020	3:19:15 PM	70.1	30698789.77
130	10/27/2020	3:19:18 PM	67.0	15035617.01
131	10/27/2020	3:19:21 PM	67.8	18076787.58
132	10/27/2020	3:19:24 PM	64.7	8853627.68
133	10/27/2020	3:19:27 PM	64.5	8455148.794
134	10/27/2020	3:19:30 PM	66.6	13712645.69
135	10/27/2020	3:19:33 PM	69.0	23829847.04
136	10/27/2020	3:19:36 PM	69.4	26128907.7
137	10/27/2020	3:19:39 PM	69.7	27997629.02
138	10/27/2020	3:19:42 PM	65.3	10165324.68
139	10/27/2020	3:19:45 PM	60.9	3690806.312
140	10/27/2020	3:19:48 PM	72.3	50947309.57
141	10/27/2020	3:19:51 PM	64.0	7535659.295
142	10/27/2020	3:19:54 PM	59.3	2553414.115
143	10/27/2020	3:19:57 PM	69.6	27360325.18
144	10/27/2020	3:20:00 PM	67.2	15744223.81
145	10/27/2020	3:20:03 PM	69.9	29317116.63
146	10/27/2020	3:20:06 PM	70.2	31413856.44
147	10/27/2020	3:20:09 PM	70.6	34444608.64
148	10/27/2020	3:20:12 PM	75.8	114056818.9
149	10/27/2020	3:20:15 PM	74.2	78908039.76
150	10/27/2020	3:20:18 PM	67.1	15385841.52
151	10/27/2020	3:20:21 PM	64.8	9059855.161
152	10/27/2020	3:20:24 PM	67.8	18076787.58
153	10/27/2020	3:20:27 PM	69.8	28649777.58
154	10/27/2020	3:20:30 PM	66.1	12221408.33
155	10/27/2020	3:20:33 PM	60.4	3289434.588
156	10/27/2020	3:20:36 PM	67.0	15035617.01
157	10/27/2020	3:20:39 PM	62.6	5459102.576
158	10/27/2020	3:20:42 PM	55.7	1114605.687
159	10/27/2020	3:20:45 PM	60.8	3606793.304
160	10/27/2020	3:20:48 PM	68.8	22757327.25
161	10/27/2020	3:20:51 PM	65.7	11146056.87
162	10/27/2020	3:20:54 PM	58.9	2328741.35
163	10/27/2020	3:20:57 PM	58.4	2075492.913
164	10/27/2020	3:21:00 PM	70.6	34444608.64
165	10/27/2020	3:21:03 PM	68.8	22757327.25
166	10/27/2020	3:21:06 PM	70.2	31413856.44
167	10/27/2020	3:21:09 PM	71.5	42376126.34
168	10/27/2020	3:21:12 PM	71.8	45406837.45
169	10/27/2020	3:21:15 PM	66.9	14693364.58
170	10/27/2020	3:21:18 PM	73.7	70326864.46
171	10/27/2020	3:21:21 PM	66.9	14693364.58

172	10/27/2020	3:21:24 PM	67.5	16870239.76
173	10/27/2020	3:21:27 PM	63.8	7196498.757
174	10/27/2020	3:21:30 PM	69.2	24952913.13
175	10/27/2020	3:21:33 PM	72.6	54591025.76
176	10/27/2020	3:21:36 PM	72.3	50947309.57
177	10/27/2020	3:21:39 PM	71.4	41411527.94
178	10/27/2020	3:21:42 PM	62.8	5716382.154
179	10/27/2020	3:21:45 PM	54.6	865209.4509
180	10/27/2020	3:21:48 PM	53.1	612521.3834
181	10/27/2020	3:21:51 PM	55.2	993393.3644
182	10/27/2020	3:21:54 PM	56.3	1279738.556
183	10/27/2020	3:21:57 PM	58.4	2075492.913
184	10/27/2020	3:22:00 PM	63.8	7196498.757
185	10/27/2020	3:22:03 PM	67.8	18076787.58
186	10/27/2020	3:22:06 PM	61.0	3776776.235
187	10/27/2020	3:22:09 PM	71.3	40468886.48
188	10/27/2020	3:22:12 PM	71.4	41411527.94
189	10/27/2020	3:22:15 PM	69.8	28649777.58
190	10/27/2020	3:22:18 PM	63.1	6125213.834
191	10/27/2020	3:22:21 PM	67.2	15744223.81
192	10/27/2020	3:22:24 PM	73.8	71964987.57
193	10/27/2020	3:22:27 PM	72.0	47546795.77
194	10/27/2020	3:22:30 PM	72.0	47546795.77
195	10/27/2020	3:22:33 PM	68.9	23287413.5
196	10/27/2020	3:22:36 PM	67.6	17263198.12
197	10/27/2020	3:22:39 PM	59.5	2673752.814
198	10/27/2020	3:22:42 PM	57.1	1538584.152
199	10/27/2020	3:22:45 PM	56.2	1250608.15
200	10/27/2020	3:22:48 PM	56.4	1309547.497
201	10/27/2020	3:22:51 PM	57.0	1503561.701
202	10/27/2020	3:22:54 PM	58.2	1982080.344
203	10/27/2020	3:22:57 PM	69.1	24384915.48
204	10/27/2020	3:23:00 PM	74.2	78908039.76
205	10/27/2020	3:23:03 PM	67.2	15744223.81
206	10/27/2020	3:23:06 PM	58.9	2328741.35
207	10/27/2020	3:23:09 PM	61.6	4336319.312
208	10/27/2020	3:23:12 PM	71.8	45406837.45
209	10/27/2020	3:23:15 PM	68.5	21238373.53
210	10/27/2020	3:23:18 PM	70.5	33660553.63
211	10/27/2020	3:23:21 PM	76.4	130954749.7
212	10/27/2020	3:23:24 PM	73.0	59857869.45
213	10/27/2020	3:23:27 PM	70.6	34444608.64
214	10/27/2020	3:23:30 PM	65.5	10644401.68
215	10/27/2020	3:23:33 PM	58.2	1982080.344
216	10/27/2020	3:23:36 PM	55.1	970780.9708
217	10/27/2020	3:23:39 PM	50.7	352469.2665
218	10/27/2020	3:23:42 PM	52.2	497876.0722

219	10/27/2020	3:23:45 PM	60.4	3289434.588
220	10/27/2020	3:23:48 PM	70.9	36908063.12
221	10/27/2020	3:23:51 PM	67.5	16870239.76
222	10/27/2020	3:23:54 PM	74.2	78908039.76
223	10/27/2020	3:23:57 PM	72.5	53348382.3
224	10/27/2020	3:24:00 PM	66.8	14358902.77
225	10/27/2020	3:24:03 PM	60.3	3214557.916
226	10/27/2020	3:24:06 PM	66.5	13400507.76
227	10/27/2020	3:24:09 PM	61.8	4540683.745
228	10/27/2020	3:24:12 PM	66.1	12221408.33
229	10/27/2020	3:24:15 PM	65.0	9486832.981
230	10/27/2020	3:24:18 PM	65.1	9707809.708
231	10/27/2020	3:24:21 PM	66.4	13095474.97
232	10/27/2020	3:24:24 PM	69.1	24384915.48
233	10/27/2020	3:24:27 PM	70.5	33660553.63
234	10/27/2020	3:24:30 PM	66.6	13712645.69
235	10/27/2020	3:24:33 PM	59.2	2495291.313
236	10/27/2020	3:24:36 PM	59.5	2673752.814
237	10/27/2020	3:24:39 PM	66.4	13095474.97
238	10/27/2020	3:24:42 PM	74.3	80746044.12
239	10/27/2020	3:24:45 PM	72.1	48654302.92
240	10/27/2020	3:24:48 PM	66.5	13400507.76
241	10/27/2020	3:24:51 PM	69.1	24384915.48
242	10/27/2020	3:24:54 PM	69.5	26737528.14
243	10/27/2020	3:24:57 PM	68.8	22757327.25
244	10/27/2020	3:25:00 PM	60.4	3289434.588
245	10/27/2020	3:25:03 PM	55.2	993393.3644
246	10/27/2020	3:25:06 PM	59.1	2438491.548
247	10/27/2020	3:25:09 PM	72.5	53348382.3
248	10/27/2020	3:25:12 PM	74.2	78908039.76
249	10/27/2020	3:25:15 PM	69.0	23829847.04
250	10/27/2020	3:25:18 PM	72.7	55862614.1
251	10/27/2020	3:25:21 PM	68.5	21238373.53
252	10/27/2020	3:25:24 PM	63.3	6413886.269
253	10/27/2020	3:25:27 PM	80.1	306987897.7
254	10/27/2020	3:25:30 PM	70.3	32145579.16
255	10/27/2020	3:25:33 PM	71.4	41411527.94
256	10/27/2020	3:25:36 PM	70.7	35246926.65
257	10/27/2020	3:25:39 PM	69.3	25534141.15
258	10/27/2020	3:25:42 PM	70.0	30000000
259	10/27/2020	3:25:45 PM	70.1	30698789.77
260	10/27/2020	3:25:48 PM	64.9	9270886.298
261	10/27/2020	3:25:51 PM	58.0	1892872.033
262	10/27/2020	3:25:54 PM	55.3	1016532.468
263	10/27/2020	3:25:57 PM	68.1	19369626.87
264	10/27/2020	3:26:00 PM	69.7	27997629.02
265	10/27/2020	3:26:03 PM	73.4	65632848.72

266	10/27/2020	3:26:06 PM	64.8	9059855.161
267	10/27/2020	3:26:09 PM	63.8	7196498.757
268	10/27/2020	3:26:12 PM	69.2	24952913.13
269	10/27/2020	3:26:15 PM	64.2	7890803.976
270	10/27/2020	3:26:18 PM	66.3	12797385.56
271	10/27/2020	3:26:21 PM	68.2	19820803.44
272	10/27/2020	3:26:24 PM	65.4	10402105.51
273	10/27/2020	3:26:27 PM	64.3	8074604.412
274	10/27/2020	3:26:30 PM	70.1	30698789.77
275	10/27/2020	3:26:33 PM	72.3	50947309.57
276	10/27/2020	3:26:36 PM	68.6	21733078.8
277	10/27/2020	3:26:39 PM	66.7	14032054.24
278	10/27/2020	3:26:42 PM	68.5	21238373.53
279	10/27/2020	3:26:45 PM	68.9	23287413.5
280	10/27/2020	3:26:48 PM	61.2	3954770.216
281	10/27/2020	3:26:51 PM	65.8	11405681.89
282	10/27/2020	3:26:54 PM	70.1	30698789.77
283	10/27/2020	3:26:57 PM	61.8	4540683.745
284	10/27/2020	3:27:00 PM	69.1	24384915.48
285	10/27/2020	3:27:03 PM	72.4	52134024.86
286	10/27/2020	3:27:06 PM	69.0	23829847.04
287	10/27/2020	3:27:09 PM	70.2	31413856.44
288	10/27/2020	3:27:12 PM	68.5	21238373.53
289	10/27/2020	3:27:15 PM	62.5	5334838.23
290	10/27/2020	3:27:18 PM	67.8	18076787.58
291	10/27/2020	3:27:21 PM	73.0	59857869.45
292	10/27/2020	3:27:24 PM	68.0	18928720.33
293	10/27/2020	3:27:27 PM	68.0	18928720.33
294	10/27/2020	3:27:30 PM	69.7	27997629.02
295	10/27/2020	3:27:33 PM	69.9	29317116.63
296	10/27/2020	3:27:36 PM	62.8	5716382.154
297	10/27/2020	3:27:39 PM	57.9	1849785.006
298	10/27/2020	3:27:42 PM	54.2	789080.3976
299	10/27/2020	3:27:45 PM	51.5	423761.2634
300	10/27/2020	3:27:48 PM	52.6	545910.2576

24-Hour Noise Measurement Avg Leq, CNEL, and Ldn Calculation Spreadsheet

Pomona 33 Project 20-10059

Results	
24-hour average Leq	57.7
CNEL	65.3
Ldn	65.2

No.s	Date	Time	dB
1	2020/10/27	3:48:01 PM	42.8
2	2020/10/27	3:52:01 PM	58.0
3	2020/10/27	3:56:01 PM	43.8
4	2020/10/27	4:00:01 PM	59.4
5	2020/10/27	4:04:01 PM	58.7
6	2020/10/27	4:08:01 PM	56.9
7	2020/10/27	4:12:01 PM	57.4
8	2020/10/27	4:16:01 PM	48.1
9	2020/10/27	4:20:01 PM	57.9
10	2020/10/27	4:24:01 PM	55.5
11	2020/10/27	4:28:01 PM	59.3
12	2020/10/27	4:32:01 PM	55.7
13	2020/10/27	4:36:01 PM	58.3
14	2020/10/27	4:40:01 PM	53.6
15	2020/10/27	4:44:01 PM	55.2
16	2020/10/27	4:48:01 PM	60.3
17	2020/10/27	4:52:01 PM	63.2
18	2020/10/27	4:56:01 PM	57.2
19	2020/10/27	5:00:01 PM	61.1
20	2020/10/27	5:04:01 PM	57.6
21	2020/10/27	5:08:01 PM	58.4
22	2020/10/27	5:12:01 PM	61.1
23	2020/10/27	5:16:01 PM	56.3
24	2020/10/27	5:20:01 PM	53.8
25	2020/10/27	5:24:01 PM	55.2
26	2020/10/27	5:28:01 PM	59.3
27	2020/10/27	5:32:01 PM	57.4
28	2020/10/27	5:36:01 PM	57.6
29	2020/10/27	5:40:01 PM	56.9
30	2020/10/27	5:44:01 PM	59.1
31	2020/10/27	5:48:01 PM	55.1
32	2020/10/27	5:52:01 PM	59.2
33	2020/10/27	5:56:01 PM	55.5
34	2020/10/27	6:00:01 PM	52.4
35	2020/10/27	6:04:01 PM	46.4
36	2020/10/27	6:08:01 PM	58.9

37	2020/10/27	6:12:01 PM	58.6
38	2020/10/27	6:16:01 PM	49.0
39	2020/10/27	6:20:01 PM	56.7
40	2020/10/27	6:24:01 PM	48.7
41	2020/10/27	6:28:01 PM	48.9
42	2020/10/27	6:32:01 PM	55.9
43	2020/10/27	6:36:01 PM	58.2
44	2020/10/27	6:40:01 PM	57.2
45	2020/10/27	6:44:01 PM	49.0
46	2020/10/27	6:48:01 PM	47.8
47	2020/10/27	6:52:01 PM	53.0
48	2020/10/27	6:56:01 PM	44.5
49	2020/10/27	7:00:01 PM	61.8
50	2020/10/27	7:04:01 PM	45.6
51	2020/10/27	7:08:01 PM	57.1
52	2020/10/27	7:12:01 PM	56.3
53	2020/10/27	7:16:01 PM	48.0
54	2020/10/27	7:20:01 PM	56.5
55	2020/10/27	7:24:01 PM	53.7
56	2020/10/27	7:28:01 PM	61.3
57	2020/10/27	7:32:01 PM	56.4
58	2020/10/27	7:36:01 PM	54.0
59	2020/10/27	7:40:01 PM	49.8
60	2020/10/27	7:44:01 PM	54.4
61	2020/10/27	7:48:01 PM	53.2
62	2020/10/27	7:52:01 PM	52.1
63	2020/10/27	7:56:01 PM	55.9
64	2020/10/27	8:00:01 PM	57.3
65	2020/10/27	8:04:01 PM	51.3
66	2020/10/27	8:08:01 PM	53.9
67	2020/10/27	8:12:01 PM	52.2
68	2020/10/27	8:16:01 PM	58.1
69	2020/10/27	8:20:01 PM	52.2
70	2020/10/27	8:24:01 PM	56.1
71	2020/10/27	8:28:01 PM	54.0
72	2020/10/27	8:32:01 PM	50.6
73	2020/10/27	8:36:01 PM	51.1
74	2020/10/27	8:40:01 PM	57.5
75	2020/10/27	8:44:01 PM	54.8
76	2020/10/27	8:48:01 PM	55.1
77	2020/10/27	8:52:01 PM	52.8
78	2020/10/27	8:56:01 PM	55.9
79	2020/10/27	9:00:01 PM	58.3
80	2020/10/27	9:04:01 PM	53.7
81	2020/10/27	9:08:01 PM	52.0
82	2020/10/27	9:12:01 PM	53.0
83	2020/10/27	9:16:01 PM	53.7

84	2020/10/27	9:20:01 PM	51.5
85	2020/10/27	9:24:01 PM	52.1
86	2020/10/27	9:28:01 PM	56.2
87	2020/10/27	9:32:01 PM	57.4
88	2020/10/27	9:36:01 PM	58.3
89	2020/10/27	9:40:01 PM	54.1
90	2020/10/27	9:44:01 PM	54.7
91	2020/10/27	9:48:01 PM	53.4
92	2020/10/27	9:52:01 PM	58.8
93	2020/10/27	9:56:01 PM	52.7
94	2020/10/27	10:00:01 PM	52.5
95	2020/10/27	10:04:01 PM	56.7
96	2020/10/27	10:08:01 PM	53.4
97	2020/10/27	10:12:01 PM	55.9
98	2020/10/27	10:16:01 PM	56.7
99	2020/10/27	10:20:01 PM	55.9
100	2020/10/27	10:24:01 PM	56.8
101	2020/10/27	10:28:01 PM	52.7
102	2020/10/27	10:32:01 PM	53.8
103	2020/10/27	10:36:01 PM	57.7
104	2020/10/27	10:40:01 PM	51.1
105	2020/10/27	10:44:01 PM	55.2
106	2020/10/27	10:48:01 PM	49.1
107	2020/10/27	10:52:01 PM	58.8
108	2020/10/27	10:56:01 PM	53.1
109	2020/10/27	11:00:01 PM	60.2
110	2020/10/27	11:04:01 PM	49.2
111	2020/10/27	11:08:01 PM	49.2
112	2020/10/27	11:12:01 PM	50.8
113	2020/10/27	11:16:01 PM	52.8
114	2020/10/27	11:20:01 PM	53.0
115	2020/10/27	11:24:01 PM	54.7
116	2020/10/27	11:28:01 PM	55.6
117	2020/10/27	11:32:01 PM	53.0
118	2020/10/27	11:36:01 PM	55.9
119	2020/10/27	11:40:01 PM	54.7
120	2020/10/27	11:44:01 PM	63.5
121	2020/10/27	11:48:01 PM	50.2
122	2020/10/27	11:52:01 PM	48.3
123	2020/10/27	11:56:01 PM	53.8
124	2020/10/28	12:00:01 AM	54.3
125	2020/10/28	12:04:01 AM	62.0
126	2020/10/28	12:08:01 AM	52.4
127	2020/10/28	12:12:01 AM	54.6
128	2020/10/28	12:16:01 AM	55.3
129	2020/10/28	12:20:01 AM	56.4
130	2020/10/28	12:24:01 AM	61.1

131	2020/10/28	12:28:01 AM	61.1
132	2020/10/28	12:32:01 AM	54.7
133	2020/10/28	12:36:01 AM	62.0
134	2020/10/28	12:40:01 AM	57.4
135	2020/10/28	12:44:01 AM	54.3
136	2020/10/28	12:48:01 AM	54.3
137	2020/10/28	12:52:01 AM	57.7
138	2020/10/28	12:56:01 AM	54.0
139	2020/10/28	1:00:01 AM	59.0
140	2020/10/28	1:04:01 AM	57.1
141	2020/10/28	1:08:01 AM	53.2
142	2020/10/28	1:12:01 AM	57.4
143	2020/10/28	1:16:01 AM	57.1
144	2020/10/28	1:20:01 AM	48.3
145	2020/10/28	1:24:01 AM	54.9
146	2020/10/28	1:28:01 AM	47.6
147	2020/10/28	1:32:01 AM	52.0
148	2020/10/28	1:36:01 AM	51.6
149	2020/10/28	1:40:01 AM	54.6
150	2020/10/28	1:44:01 AM	47.9
151	2020/10/28	1:48:01 AM	52.0
152	2020/10/28	1:52:01 AM	56.5
153	2020/10/28	1:56:01 AM	56.0
154	2020/10/28	2:00:01 AM	56.5
155	2020/10/28	2:04:01 AM	52.3
156	2020/10/28	2:08:01 AM	58.3
157	2020/10/28	2:12:01 AM	57.6
158	2020/10/28	2:16:01 AM	55.9
159	2020/10/28	2:20:01 AM	61.3
160	2020/10/28	2:24:01 AM	59.9
161	2020/10/28	2:28:01 AM	58.2
162	2020/10/28	2:32:01 AM	58.8
163	2020/10/28	2:36:01 AM	51.8
164	2020/10/28	2:40:01 AM	60.4
165	2020/10/28	2:44:01 AM	59.7
166	2020/10/28	2:48:01 AM	60.0
167	2020/10/28	2:52:01 AM	60.8
168	2020/10/28	2:56:01 AM	55.0
169	2020/10/28	3:00:01 AM	56.5
170	2020/10/28	3:04:01 AM	57.2
171	2020/10/28	3:08:01 AM	54.3
172	2020/10/28	3:12:01 AM	55.1
173	2020/10/28	3:16:01 AM	54.6
174	2020/10/28	3:20:01 AM	54.9
175	2020/10/28	3:24:01 AM	53.4
176	2020/10/28	3:28:01 AM	52.7
177	2020/10/28	3:32:01 AM	54.4

178	2020/10/28	3:36:01 AM	57.7
179	2020/10/28	3:40:01 AM	57.1
180	2020/10/28	3:44:01 AM	59.2
181	2020/10/28	3:48:01 AM	61.9
182	2020/10/28	3:52:01 AM	58.7
183	2020/10/28	3:56:01 AM	62.3
184	2020/10/28	4:00:01 AM	56.1
185	2020/10/28	4:04:01 AM	57.6
186	2020/10/28	4:08:01 AM	56.1
187	2020/10/28	4:12:01 AM	59.0
188	2020/10/28	4:16:01 AM	57.1
189	2020/10/28	4:20:01 AM	59.8
190	2020/10/28	4:24:01 AM	57.6
191	2020/10/28	4:28:01 AM	57.9
192	2020/10/28	4:32:01 AM	58.2
193	2020/10/28	4:36:01 AM	56.8
194	2020/10/28	4:40:01 AM	56.3
195	2020/10/28	4:44:01 AM	60.1
196	2020/10/28	4:48:01 AM	60.8
197	2020/10/28	4:52:01 AM	59.6
198	2020/10/28	4:56:01 AM	58.8
199	2020/10/28	5:00:01 AM	59.0
200	2020/10/28	5:04:01 AM	59.9
201	2020/10/28	5:08:01 AM	57.7
202	2020/10/28	5:12:01 AM	57.8
203	2020/10/28	5:16:01 AM	61.6
204	2020/10/28	5:20:01 AM	61.7
205	2020/10/28	5:24:01 AM	61.6
206	2020/10/28	5:28:01 AM	63.3
207	2020/10/28	5:32:01 AM	58.2
208	2020/10/28	5:36:01 AM	60.7
209	2020/10/28	5:40:01 AM	60.1
210	2020/10/28	5:44:01 AM	58.8
211	2020/10/28	5:48:01 AM	60.6
212	2020/10/28	5:52:01 AM	65.3
213	2020/10/28	5:56:01 AM	65.1
214	2020/10/28	6:00:01 AM	61.3
215	2020/10/28	6:04:01 AM	61.9
216	2020/10/28	6:08:01 AM	61.2
217	2020/10/28	6:12:01 AM	64.1
218	2020/10/28	6:16:01 AM	61.0
219	2020/10/28	6:20:01 AM	60.1
220	2020/10/28	6:24:01 AM	57.5
221	2020/10/28	6:28:01 AM	56.3
222	2020/10/28	6:32:01 AM	69.8
223	2020/10/28	6:36:01 AM	69.6
224	2020/10/28	6:40:01 AM	57.1

225	2020/10/28	6:44:01 AM	58.3
226	2020/10/28	6:48:01 AM	56.8
227	2020/10/28	6:52:01 AM	59.7
228	2020/10/28	6:56:01 AM	58.0
229	2020/10/28	7:00:01 AM	55.6
230	2020/10/28	7:04:01 AM	59.1
231	2020/10/28	7:08:01 AM	58.8
232	2020/10/28	7:12:01 AM	55.9
233	2020/10/28	7:16:01 AM	57.1
234	2020/10/28	7:20:01 AM	58.3
235	2020/10/28	7:24:01 AM	60.5
236	2020/10/28	7:28:01 AM	64.2
237	2020/10/28	7:32:01 AM	61.7
238	2020/10/28	7:36:01 AM	64.8
239	2020/10/28	7:40:01 AM	59.7
240	2020/10/28	7:44:01 AM	60.2
241	2020/10/28	7:48:01 AM	60.1
242	2020/10/28	7:52:01 AM	61.9
243	2020/10/28	7:56:01 AM	62.3
244	2020/10/28	8:00:01 AM	57.3
245	2020/10/28	8:04:01 AM	54.7
246	2020/10/28	8:08:01 AM	54.9
247	2020/10/28	8:12:01 AM	56.2
248	2020/10/28	8:16:01 AM	53.4
249	2020/10/28	8:20:01 AM	52.0
250	2020/10/28	8:24:01 AM	52.6
251	2020/10/28	8:28:01 AM	49.0
252	2020/10/28	8:32:01 AM	55.1
253	2020/10/28	8:36:01 AM	55.2
254	2020/10/28	8:40:01 AM	50.8
255	2020/10/28	8:44:01 AM	61.2
256	2020/10/28	8:48:01 AM	59.4
257	2020/10/28	8:52:01 AM	54.7
258	2020/10/28	8:56:01 AM	57.2
259	2020/10/28	9:00:01 AM	59.8
260	2020/10/28	9:04:01 AM	56.7
261	2020/10/28	9:08:01 AM	52.5
262	2020/10/28	9:12:01 AM	49.9
263	2020/10/28	9:16:01 AM	51.8
264	2020/10/28	9:20:01 AM	55.5
265	2020/10/28	9:24:01 AM	53.9
266	2020/10/28	9:28:01 AM	50.4
267	2020/10/28	9:32:01 AM	59.7
268	2020/10/28	9:36:01 AM	54.8
269	2020/10/28	9:40:01 AM	55.3
270	2020/10/28	9:44:01 AM	47.6
271	2020/10/28	9:48:01 AM	57.1

272	2020/10/28	9:52:01 AM	48.2
273	2020/10/28	9:56:01 AM	51.2
274	2020/10/28	10:00:01 AM	48.0
275	2020/10/28	10:04:01 AM	46.7
276	2020/10/28	10:08:01 AM	47.8
277	2020/10/28	10:12:01 AM	49.2
278	2020/10/28	10:16:01 AM	50.7
279	2020/10/28	10:20:01 AM	45.3
280	2020/10/28	10:24:01 AM	57.6
281	2020/10/28	10:28:01 AM	48.2
282	2020/10/28	10:32:01 AM	44.9
283	2020/10/28	10:36:01 AM	52.3
284	2020/10/28	10:40:01 AM	52.9
285	2020/10/28	10:44:01 AM	55.0
286	2020/10/28	10:48:01 AM	56.2
287	2020/10/28	10:52:01 AM	46.1
288	2020/10/28	10:56:01 AM	51.2
289	2020/10/28	11:00:01 AM	48.0
290	2020/10/28	11:04:01 AM	43.1
291	2020/10/28	11:08:01 AM	51.5
292	2020/10/28	11:12:01 AM	58.2
293	2020/10/28	11:16:01 AM	53.9
294	2020/10/28	11:20:01 AM	57.4
295	2020/10/28	11:24:01 AM	53.7
296	2020/10/28	11:28:01 AM	55.6
297	2020/10/28	11:32:01 AM	45.0
298	2020/10/28	11:36:01 AM	44.3
299	2020/10/28	11:40:01 AM	59.8
300	2020/10/28	11:44:01 AM	52.8
301	2020/10/28	11:48:01 AM	47.8
302	2020/10/28	11:52:01 AM	54.1
303	2020/10/28	11:56:01 AM	55.3
304	2020/10/28	12:00:01 PM	54.8
305	2020/10/28	12:04:01 PM	64.4
306	2020/10/28	12:08:01 PM	62.1
307	2020/10/28	12:12:01 PM	54.5
308	2020/10/28	12:16:01 PM	57.4
309	2020/10/28	12:20:01 PM	51.8
310	2020/10/28	12:24:01 PM	44.5
311	2020/10/28	12:28:01 PM	50.6
312	2020/10/28	12:32:01 PM	57.2
313	2020/10/28	12:36:01 PM	46.8
314	2020/10/28	12:40:01 PM	54.8
315	2020/10/28	12:44:01 PM	53.6
316	2020/10/28	12:48:01 PM	61.4
317	2020/10/28	12:52:01 PM	59.8
318	2020/10/28	12:56:01 PM	50.2

319	2020/10/28	1:00:01 PM	49.0
320	2020/10/28	1:04:01 PM	41.7
321	2020/10/28	1:08:01 PM	60.0
322	2020/10/28	1:12:01 PM	56.7
323	2020/10/28	1:16:01 PM	46.6
324	2020/10/28	1:20:01 PM	61.0
325	2020/10/28	1:24:01 PM	52.8
326	2020/10/28	1:28:01 PM	50.9
327	2020/10/28	1:32:01 PM	60.2
328	2020/10/28	1:36:01 PM	57.0
329	2020/10/28	1:40:01 PM	50.9
330	2020/10/28	1:44:01 PM	52.3
331	2020/10/28	1:48:01 PM	52.4
332	2020/10/28	1:52:01 PM	55.9
333	2020/10/28	1:56:01 PM	62.3
334	2020/10/28	2:00:01 PM	59.0
335	2020/10/28	2:04:01 PM	51.8
336	2020/10/28	2:08:01 PM	54.6
337	2020/10/28	2:12:01 PM	47.6
338	2020/10/28	2:16:01 PM	55.9
339	2020/10/28	2:20:01 PM	56.2
340	2020/10/28	2:24:01 PM	55.0
341	2020/10/28	2:28:01 PM	51.2
342	2020/10/28	2:32:01 PM	55.9
343	2020/10/28	2:36:01 PM	61.0
344	2020/10/28	2:40:01 PM	56.5
345	2020/10/28	2:44:01 PM	49.9
346	2020/10/28	2:48:01 PM	57.9
347	2020/10/28	2:52:01 PM	53.0
348	2020/10/28	2:56:01 PM	61.7
349	2020/10/28	3:00:01 PM	57.1
350	2020/10/28	3:04:01 PM	53.8
351	2020/10/28	3:08:01 PM	51.9
352	2020/10/28	3:12:01 PM	51.8
353	2020/10/28	3:16:01 PM	58.9
354	2020/10/28	3:20:01 PM	51.9
355	2020/10/28	3:24:01 PM	49.4
356	2020/10/28	3:28:01 PM	59.9
357	2020/10/28	3:32:01 PM	56.3
358	2020/10/28	3:36:01 PM	48.0
359	2020/10/28	3:40:01 PM	47.2
360	2020/10/28	3:44:01 PM	53.8

Appendix B

Noise Modeling Results

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 12/15/2020
Case Descriptic Pomona 33 Project

				---- Receptor #1 ----
		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Receptor	Residential	75	75	75

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dozer	No	40		81.7	50	0
Front End Loader	No	40		79.1	50	0

Calculated (dBA)

Equipment	*Lmax	Leq
Dozer	81.7	77.7
Front End Loader	79.1	75.1
Total	81.7	79.6

*Calculated Lmax is the Loudest value.

Conversion to Sound Power Level

Type	Ground Type	Reference Leq (dBA)	Reference Distance (Feet)	Sound Power Level SPL (dBA)
Point	Hard	79.6	50	111.2

SoundPlan Construction Scenario Output

Receiver	X m	Y m	Z m	Leq,d dB(A)
1	429191.50	3769906.89	1.52	64
2	429180.37	3769929.06	1.52	66
3	429177.40	3769970.38	1.52	63
4	429170.08	3770010.28	1.52	61
5	429189.20	3770015.84	1.52	62
6	429207.40	3770021.14	1.52	62
7	429225.52	3770026.42	1.52	62
8	429244.79	3770032.03	1.52	62
9	429266.73	3770055.75	1.52	58
10	429273.94	3770037.29	1.52	59
11	429281.18	3770018.78	1.52	62
12	429288.12	3770001.02	1.52	64
13	429300.38	3769983.22	1.52	62
14	429296.66	3769953.50	1.52	66
15	429305.46	3769930.96	1.52	65
16	429312.34	3769913.13	1.52	63
17	429330.55	3769884.28	1.52	58
18	429315.40	3769879.45	1.52	59
19	429300.35	3769874.01	1.52	59
20	429285.23	3769867.66	1.52	62
21	429271.07	3769863.00	1.52	62
22	429258.02	3769860.89	1.52	62
23	429243.69	3769854.37	1.52	62
24	429227.63	3769849.78	1.52	61
25	429211.26	3769845.09	1.52	61
26	429195.20	3769840.48	1.52	58

SoundPlan Migitated Construction Scenario Output

Receiver	X m	Y m	Z m	Leq,d dB(A)
1	429188.58	3769906.01	1.52	62
2	429180.37	3769929.06	1.52	65
3	429174.48	3769969.46	1.52	62
4	429170.08	3770010.28	1.52	61
5	429189.20	3770015.84	1.52	62
6	429207.40	3770021.14	1.52	62
7	429225.52	3770026.42	1.52	62
8	429244.79	3770032.03	1.52	62
9	429266.73	3770055.75	1.52	58
10	429273.94	3770037.29	1.52	59
11	429281.18	3770018.78	1.52	62
12	429288.12	3770001.02	1.52	64
13	429300.38	3769983.22	1.52	62
14	429299.49	3769954.63	1.52	64
15	429305.60	3769931.04	1.52	64
16	429313.10	3769913.51	1.52	64
17	429330.55	3769884.28	1.52	58
18	429315.40	3769879.45	1.52	59
19	429300.35	3769874.01	1.52	59
20	429285.23	3769867.66	1.52	62
21	429271.07	3769863.00	1.52	62
22	429258.02	3769860.89	1.52	62
23	429243.69	3769854.37	1.52	62
24	429227.63	3769849.78	1.52	61
25	429211.26	3769845.09	1.52	61
26	429195.20	3769840.48	1.52	58

SoundPlan HVAC Scenario Output

Receiver	X m	Y m	Z m	Leq,n dB(A)
1	429195.6	3769882.31	1.52	42
2	429194.50	3769889.88	1.52	43
3	429188.59	3769905.96	1.52	40
4	429179.80	3769931.72	1.52	40
5	429174.46	3769969.50	1.52	39
6	429170.67	3769987.57	1.52	40
7	429170.08	3770010.28	1.52	34
8	429183.16	3770014.09	1.52	35
9	429208.72	3770021.53	1.52	38
10	429230.94	3770028.00	1.52	37
11	429247.79	3770032.90	1.52	36
12	429299.49	3769954.63	1.52	36
13	429306.15	3769929.60	1.52	37
14	429310.75	3769922.70	1.52	39

SoundPlan Traffic Scenario Output

Receiver	Fl	X m	Y m	Z m	Lden dB(A)	Leq,d dB(A)	Leq,e dB(A)	Leq,n dB(A)
RES-1 Backyard	G	429199.15	3769879.75	1.52	60	59	56	51
RES-1 Facade	G	429207.08	3769877.75	1.52	67	65	62	58
RES-1 Facade	F2	429207.08	3769877.75	4.32	66	65	62	57
RES-2 Backyard	G	429196.68	3769892.63	1.52	56	55	52	47
RES-3 Backyard	G	429194.09	3769905.32	1.52	57	55	52	48
RES-4 Backyard	G	429191.23	3769918.37	1.52	57	56	53	48
RES-5 Backyard	G	429188.47	3769930.70	1.52	58	57	54	49
RES-6 Backyard	G	429185.26	3769943.34	1.52	58	57	54	49
RES-7 Backyard	G	429182.43	3769956.73	1.52	58	57	54	49
RES-8 Backyard	G	429179.81	3769969.31	1.52	58	57	54	49
RES-9 Backyard	G	429177.17	3769987.01	1.52	59	58	55	50
RES-10 Backyard	G	429186.57	3770004.63	1.52	59	58	55	50
RES-11 Backyard	G	429204.21	3770011.62	1.52	60	59	56	51
RES-12 Backyard	G	429216.55	3770015.11	1.52	60	59	56	51
RES-13 Backyard	G	429231.01	3770019.06	1.52	60	59	56	51
RES-14 Backyard	G	429250.86	3770020.32	1.52	62	61	58	53
RES-15 Backyard	G	429264.67	3770004.20	1.52	62	60	57	53
RES-16 Backyard	G	429270.58	3769986.38	1.52	61	60	57	52
RES-17 Backyard	G	429271.69	3769974.00	1.52	62	60	57	53
RES-18 Backyard	G	429275.08	3769962.52	1.52	61	60	57	52
RES-19 Backyard	G	429286.47	3769952.89	1.52	62	61	58	53
RES-20 Backyard	G	429287.87	3769932.23	1.52	58	57	54	49
RES-21 Backyard	G	429290.47	3769919.97	1.52	58	56	53	49
RES-22 Backyard	G	429294.46	3769907.98	1.52	61	60	57	52
RES-22 Facade	G	429287.42	3769901.84	1.52	66	65	62	57
RES-22 Facade	F2	429287.42	3769901.84	4.32	66	65	62	57
RES-23 Backyard	G	429299.12	3769925.33	1.52	56	55	52	47
RES-24 Backyard	G	429300.90	3769919.97	1.52	56	55	52	47
RES-24 Facade	G	429302.88	3769906.24	0.62	66	65	62	57
RES-24 Facade	F2	429302.88	3769906.24	3.42	67	66	63	58
RES-25 Backyard	G	429247.54	3769894.66	1.52	60	58	55	51
RES-25 Facade	G	429255.68	3769892.30	1.52	66	65	62	57
RES-25 Facade	F2	429255.68	3769892.30	4.32	66	65	62	57
RES-26 Backyard	G	429245.35	3769907.11	1.52	55	54	51	46
RES-27 Backyard	G	429242.51	3769919.64	1.52	54	53	50	45
RES-28 Backyard	G	429239.37	3769932.26	1.52	54	53	50	45
RES-29 Backyard	G	429234.16	3769942.85	1.52	56	55	52	47
RES-30 Backyard	G	429236.25	3769929.80	1.52	55	53	50	46
RES-31 Backyard	G	429239.04	3769917.46	1.52	55	54	51	46
RES-32 Backyard	G	429241.76	3769905.39	1.52	56	54	51	47
RES-33 Backyard	G	429244.58	3769892.67	1.52	61	59	56	52
RES-33 Facade	G	429238.53	3769886.20	1.52	62	61	58	53
RES-33 Facade	F2	429238.53	3769886.20	4.32	67	66	63	58

FHWA RD-77-108

Traffic Noise Prediction Model

Data Input Sheet

Project Name : Riverview
Project Number : 8721
Modeled Condition : Existing

Surface Refelction: CNEL
Assessment Metric: Hard
Peak ratio to ADT: 10.00
Traffic Desc. (Peak or ADT) : ADT

Segment	Roadway	Segment	Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	K-Factor
Existing												
1	Orange Grove Avenue	Dudley St to Weber St	8,200	35	50	97.50	2.50	0.00	80.00	10.00	10.00	0.1
2	Orange Grove Avenue	Weber St to Lewis St	9,200	35	50	97.50	2.50	0.00	80.00	10.00	10.00	0.1
3	Orange Grove Avenue	Dudley St to Hamilton Blvd	10,200	35	50	97.50	2.50	0.00	80.00	10.00	10.00	0.1
4	Orange Grove Avenue	East of Hamilton	12,900	35	50	97.50	2.50	0.00	80.00	10.00	10.00	0.1
5	Weber Street	South of Orange Grove Avenue	1,600	35	50	97.50	2.50	0.00	80.00	10.00	10.00	0.1
6	Lewis Street	North of Orange Grove Avenue	1,400	25	50	97.50	2.50	0.00	80.00	10.00	10.00	0.1
7	Hamilton Blvd	South of Orange Grove Avenue	6,000	35	50	97.50	2.50	0.00	80.00	10.00	10.00	0.1
Existing + Project												
8	Orange Grove Avenue	Dudley St to Weber St	8,300	35	50	97.50	2.50	0.00	80.00	10.00	10.00	0.1
9	Orange Grove Avenue	Weber St to Lewis St	9,400	35	50	97.50	2.50	0.00	80.00	10.00	10.00	0.1
10	Orange Grove Avenue	Dudley St to Hamilton Blvd	10,400	35	50	97.50	2.50	0.00	80.00	10.00	10.00	0.1
11	Orange Grove Avenue	East of Hamilton	13,000	35	50	97.50	2.50	0.00	80.00	10.00	10.00	0.1
12	Weber Street	South of Orange Grove Avenue	1,700	35	50	97.50	2.50	0.00	80.00	10.00	10.00	0.1
13	Lewis Street	North of Orange Grove Avenue	1,400	25	50	97.50	2.50	0.00	80.00	10.00	10.00	0.1
14	Hamilton Blvd	South of Orange Grove Avenue	6,100	35	50	97.50	2.50	0.00	80.00	10.00	10.00	0.1

FHWA RD-77-108

Traffic Noise Prediction Model

Predicted Noise Levels

Project Name : Riverview
Project Number : 8721
Modeled Condition : Existing
Assessment Metric: Hard

			Noise Levels, dBA Hard				Distance to Traffic Noise Level Contours, Feet					
Segment	Roadway	Segment	Auto	MT	HT	Total	75 dB	70 dB	65 dB	60 dB	55 dB	50 dB
Existing												
1	Orange Grove Avenue	Dudley St to Weber St	63.2	57.0	0.0	64	4	13	42	132	416	1,315
2	Orange Grove Avenue	Weber St to Lewis St	63.7	57.5	0.0	65	5	15	47	148	467	1,476
3	Orange Grove Avenue	Dudley St to Hamilton Blvd	64.2	58.0	0.0	65	5	16	51	162	512	1,618
4	Orange Grove Avenue	East of Hamilton	65.2	59.0	0.0	66	6	20	64	204	644	2,037
5	Weber Street	South of Orange Grove Avenue	56.1	49.9	0.0	57	1	3	8	26	81	256
6	Lewis Street	North of Orange Grove Avenue	51.3	47.1	0.0	53	0	1	3	9	29	93
7	Hamilton Blvd	South of Orange Grove Avenue	61.9	55.7	0.0	63	3	10	30	95	301	953
Existing + Project												
8	Orange Grove Avenue	Dudley St to Weber St	63.3	57.1	0.0	64	4	13	42	132	416	1,315
9	Orange Grove Avenue	Weber St to Lewis St	63.8	57.6	0.0	65	5	15	48	151	477	1,510
10	Orange Grove Avenue	Dudley St to Hamilton Blvd	64.3	58.0	0.0	65	5	17	52	166	524	1,656
11	Orange Grove Avenue	East of Hamilton	65.2	59.0	0.0	66	7	21	66	208	659	2,084
12	Weber Street	South of Orange Grove Avenue	56.4	50.2	0.0	57	1	3	8	27	85	269
13	Lewis Street	North of Orange Grove Avenue	51.3	47.1	0.0	53	0	1	3	9	29	93
14	Hamilton Blvd	South of Orange Grove Avenue	61.9	55.7	0.0	63	3	10	31	97	308	975

Appendix C

Sample HVAC Specifications

ELECTRICAL DATA

38HDR UNIT SIZE	V–PH–Hz	VOLTAGE RANGE*		COMPRESSOR		OUTDOOR FAN MOTOR			MIN CKT AMPS	FUSE/ HACR BKR AMPS
		Min	Max	RLA	LRA	FLA	NEC Hp	kW Out		
018	208/230–1–60	187	253	9.0	48.0	0.80	0.125	0.09	12.1	20
024	208/230–1–60	187	253	12.8	58.3	0.80	0.125	0.09	16.8	25
030	208/230–1–60	187	253	14.1	73.0	1.45	0.25	0.19	19.1	30
036	208/230–1–60	187	253	14.1	77.0	1.45	0.25	0.19	19.1	30
	208/230–3–60	187	253	9.0	71.0	1.45	0.25	0.19	12.7	20
	460–3–60	414	506	5.6	38.0	0.80	0.25	0.19	7.8	15
048	208/230–1–60	187	253	21.8	117.0	1.45	0.25	0.19	28.7	50
	208/230–3–60	187	253	13.7	83.1	1.45	0.25	0.19	18.6	30
	460–3–60	414	506	6.2	41.0	0.80	0.25	0.19	8.6	15
060	208/230–1–60	187	253	26.4	134.0	1.45	0.25	0.19	34.5	60
	208/230–3–60	187	253	16.0	110.0	1.45	0.25	0.19	21.5	35
	460–3–60	414	506	7.8	52.0	0.80	0.25	0.19	10.6	15

* Permissible limits of the voltage range at which the unit will operate satisfactorily

FLA – Full Load Amps

HACR – Heating, Air Conditininng, Refrigeration

LRA – Locked Rotor Amps

NEC – National Electrical Code

RLA – Rated Load Amps (compressor)

NOTE: Control circuit is 24–V on all units and requires external power source. Copper wire must be used from service disconnect to unit. All motors/compressors contain internal overload protection.

SOUND LEVEL

Unit Size	Standard Rating (dB)	Typical Octave Band Spectrum (dBA) (without tone adjustment)						
		125	250	500	1000	2000	4000	8000
018	68	52.0	57.5	60.5	63.5	60.5	57.5	46.5
024	69	57.5	61.5	63.0	61.0	60.0	56.0	45.0
030	72	56.5	63.0	65.0	66.0	64.0	62.5	57.0
036	72	65.0	61.5	63.5	65.0	64.5	61.0	54.5
048	72	58.5	61.0	64.0	67.5	66.0	64.0	57.0
060	72	63.0	61.5	64.0	66.5	66.0	64.5	55.5

CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

UNIT SIZE–VOLTAGE, SERIES	REQUIRED SUBCOOLING °F (°C)
018	12 (6.7)
024	12 (6.7)
030	12 (6.7)
036	12 (6.7)
048	12 (6.7)
060	12 (6.7)

Appendix D

Sample Noise Barrier

Acoustical Surfaces, Inc.

SOUNDPROOFING, ACOUSTICS, NOISE & VIBRATION CONTROL SPECIALISTS

123 Columbia Court North • Suite 201 • Chaska, MN 55318

(952) 448-5300 • Fax (952) 448-2613 • (800) 448-0121

Email: sales@acousticalsurfaces.com

Visit our Website: www.acousticalsurfaces.com

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Echo Barrier™

The Industry's First Reusable, Indoor/ Outdoor Noise Barrier/Absorber

- Superior acoustic performance
- Industrial durability
- Simple and quick installation system
- Lightweight for easy handling
- Unique roll-up design for compact storage and transportation
- Double or triple up for noise 'hot spots'
- Ability to add branding or messages
- Range of accessories available
- Weatherproof – absorbs sound but not water
- Fire retardant
- 1 person can do the job of 2 or 3 people

Why is it all too often we see construction sites with fencing but no regard for sound issues created from the construction that is taking place? This is due to the fact that there has not been an efficient means of treating this type of noise that was cost effective ***until now.***

Echo Barrier temporary fencing is a reusable, outdoor noise barrier. Designed to fit on all types of temporary fencing. Echo Barrier absorbs sound while remaining quick to install, light to carry and tough to last.

BENEFITS: Echo Barrier can help reduce noise complaints, enhance your company reputation, extend site operating hours, reduce project timescales & costs, and improve working conditions.

APPLICATIONS: Echo Barrier works great for construction & demolition sites; rail maintenance & replacement; music, sports and other public events; road construction; utility/maintenance sites; loading and unloading areas; outdoor gun ranges.

DIMENSIONS: 6.56' × 4.49'.

WEIGHT: 13 lbs.

ACOUSTIC PERFORMANCE: 10-20dB noise reduction (greater if barrier is doubled up).

INSTALLATION: The Echo Barrier is easily installed using our quick hook system and specially designed elastic ties.

Echo Barrier Transmission Loss Field Data							
	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	8KHz
Single Layer	6	12	16	23	28	30	30
Double Layer	7	19	24	28	32	31	32

Appendix G

Traffic Impact Analysis

875 WEST ORANGE GROVE AVENUE TRAFFIC IMPACT ANALYSIS

City of Pomona

November 24, 2020

gandhi

Traffic Engineering ● Transportation Planning ● Parking ● Noise & Vibration
Air Quality ● Global Climate Change ● Health Risk Assessment

875 WEST ORANGE GROVE AVENUE TRAFFIC IMPACT ANALYSIS

City of Pomona

November 24, 2020

prepared by
Brandon Alvarado, EIT
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Project No. 19314

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EXECUTIVE SUMMARY

The project site is located at 875 West Orange Grove Avenue in the City of Pomona, California. The project site is proposed to be developed with 33 detached dwelling units of single-family condominiums. Vehicular access is proposed at West Orange Grove Avenue via two full access driveways. For the purposes of this analysis, the project is assumed to be fully operational by Year 2023.

VMT Screening Analysis

The proposed project satisfies the VMT screening criteria for projects located in low VMT-generating areas; therefore, the proposed project may be presumed to result in a less than significant VMT impact.

Project Trips

The proposed project is forecast to generate a total of approximately 312 daily trips, including 24 trips during the AM peak hour and 33 trips during the PM peak hour.

Level of Service Analysis

The proposed project is forecast to result in no significant Level of Service impacts at the study intersections for the evaluated scenarios during the AM and PM peak hour conditions.

Congestion Management Program (CMP)

Based on the project trip assignment, the proposed project is forecast to contribute fewer than 50 or more weekday peak hour trips to a CMP-monitored intersection or 150 or more weekday peak hour trips to a mainline freeway monitoring location. Therefore, a CMP impact analysis is not required for this project.

Sight Distance Analysis

There are no existing structures, objects, or landscaping that substantially obstruct the line of sight for the Project Driveways. On-street parking is permitted on the project frontage on either side of, and in between, the driveways and could potentially cause temporary sight distance obstructions. To provide adequate corner sight distance, it is recommended that on-street parking be prohibited along the project site frontage.

Lewis Street/Orange Grove Avenue Crosswalk Analysis

Based on the FHWA recommendations, the Lewis Street/Orange Grove Avenue crosswalk should be enhanced with other pedestrian crossing improvements to reduce possible crash risk.

To improve the conspicuity of the pedestrian warning sign when pedestrians desire to cross, pedestrian-activated warning lights are recommended in conjunction with the existing pedestrian crossing warning sign. Two alternatives include flashing yellow warning beacons or flashing yellow LEDs in the border of the pedestrian crossing warning sign.

1. INTRODUCTION

This section describes the purpose and objectives, project location, proposed development, and study area. Figure 1 shows the project location map and Figure 2 illustrates the project site plan.

PURPOSE AND OBJECTIVES

The purpose of this transportation assessment is to assess potential transportation impacts resulting from development of the proposed project both in the context of the California Environmental Quality Act (CEQA) and City of Pomona discretionary authority. This study has been prepared in consultation with the City of Pomona and in accordance with the City of Pomona *Transportation Study Guidelines for Vehicle Miles Traveled and Level of Service Assessment* (October 2020) ["City of Pomona Guidelines"]. Consultation with City staff is documented in the City-approved traffic impact study scope included in Appendix B.

For CEQA purposes, this study evaluates the significance of project-related transportation impacts with respect to vehicle miles traveled (VMT) thresholds established by the City of Pomona, as the lead agency, and identifies the appropriate measures to mitigate such impacts, if any. This study also evaluates non-CEQA impacts and corrective measures, if necessary, relating to Level of Service operations and multi-modal circulation. This report analyzes Level of Service impacts for the anticipated project opening year in Year 2023, at which time it is anticipated to be generating trips at its ultimate potential.

Although this is a technical report, effort has been made to write the report clearly and concisely. A glossary is provided in Appendix A to assist the reader with terms related to transportation engineering.

PROJECT DESCRIPTION

The project site is located at 875 West Orange Grove Avenue in the City of Pomona, California. The project site is proposed to be developed with 33 detached dwelling units of single-family condominiums. Vehicular access is proposed at West Orange Grove Avenue via two full access driveways. For the purposes of this analysis, the project is assumed to be fully operational by Year 2023.

STUDY AREA

The scope and fundamental assumptions of the study were determined in coordination with City of Pomona engineering staff. The City-approved scoping agreement is provided in Appendix B. Based on the study intersections identified in the scoping agreement, the study area consists of the following study intersections within City of Pomona jurisdiction:

Study Intersections[1]	Jurisdiction
1. Weber Street (NS) at Orange Grove Avenue (EW)	Pomona
2. Lewis Street (NS) at Orange Grove Avenue (EW)	Pomona
3. Hamilton Boulevard (NS) at Orange Grove Avenue (EW)	Pomona
4. Project West Driveway (NS) at Orange Grove Avenue (EW)	Pomona
5. Project East Driveway (NS) at Orange Grove Avenue (EW)	Pomona

[1] (NS) = North-South roadway; (EW) = East-West roadway

ANALYSIS SCENARIOS

The following scenarios are analyzed for typical weekday AM and PM peak hour conditions in accordance with City of Pomona Guidelines:

- Existing Conditions
- Opening Year (2023) Without Project Conditions
- Opening Year (2023) With Project Conditions

Legend

(#) Study Intersection

(#) Project Driveway

Figure 1
Project Location Map

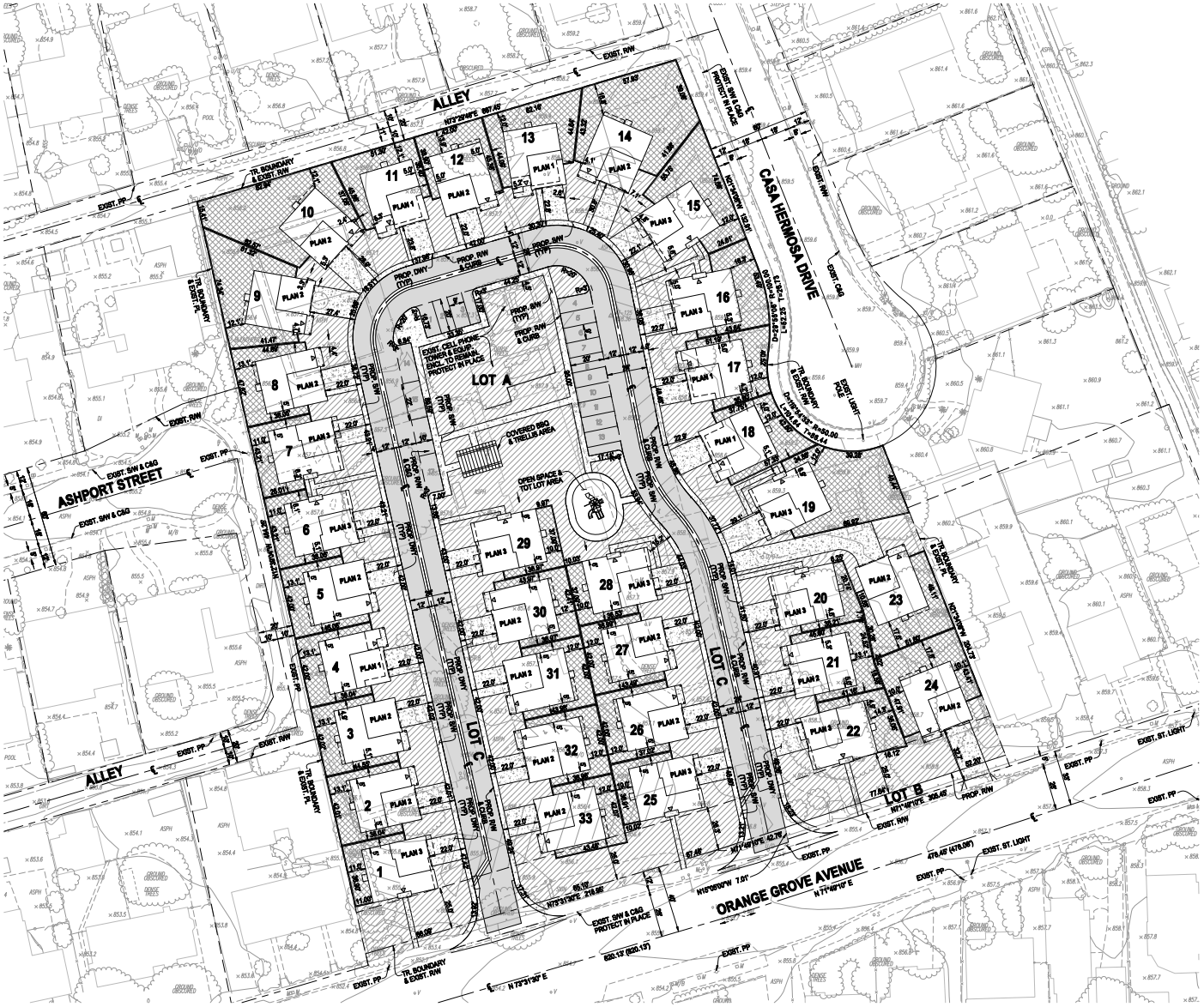


Figure 2
Site Plan

2. METHODOLOGY

This section discusses the analysis methodologies used to assess transportation facility performance as adopted by the respective jurisdictional agencies. The scope of this traffic impact analysis is based on the guidance provided in the City of Pomona *Transportation Study Guidelines for Vehicle Miles Traveled and Level of Service Assessment* (October 2020) ["City of Pomona Guidelines"].

LEVEL OF SERVICE ANALYSIS (NON-CEQA)

Level of Service analysis is performed for assessing General Plan operational compliance. In accordance with CEQA provisions, any Level of Service impacts identified are solely for General Plan compliance and would not constitute a significant impact under CEQA.

The method used to assess the performance of intersections in the City of Pomona is known as the intersection delay methodology based on the procedures contained in the *Highway Capacity Manual* (Transportation Research Board, 6th Edition). The methodology considers the traffic volume and distribution of movements, traffic composition, geometric characteristics, and signalization details to calculate the average control delay per vehicle and corresponding Level of Service. Control delay is defined as the portion of delay attributed to the intersection traffic control (such as a traffic signal or stop sign) and includes initial deceleration, queue move-up time, stopped delay, and final acceleration delay. The intersection control delay is then correlated to Level of Service based on the following thresholds:

Level of Service	Intersection Control Delay (Seconds / Vehicle)	
	Signalized Intersection	Unsignalized Intersection
A	≤ 10.0	≤ 10.0
B	> 10.0 to ≤ 20.0	> 10.0 to ≤ 15.0
C	> 20.0 to ≤ 35.0	> 15.0 to ≤ 25.0
D	> 35.0 to ≤ 55.0	> 25.0 to ≤ 35.0
E	> 55.0 to ≤ 80.0	> 35.0 to ≤ 50.0
F	> 80.0	> 50.0

Source: *Highway Capacity Manual* (Transportation Research Board, 6th Edition).

Level of Service is used to qualitatively describe the performance of a roadway facility, ranging from Level of Service A (free-flow conditions) to Level of Service F (extreme congestion and system failure). At intersections with traffic signal or all way stop control, Level of Service is determined by the average control delay for the overall intersection. At intersections with cross street stop control (i.e., one- or two-way stop control), Level of Service is determined by the average control delay for the worst individual movement (or movements sharing a single lane).

Intersection delay/Level of Service analysis was performed using the Vistro software. The intersection Level of Service analysis has been performed in accordance with City of Pomona Guidelines, including optimized signal timing, lost time, and recommended saturation flow rates.

Performance Standards

Level of Service (LOS) D is considered the minimum acceptable Level of Service for intersections within City of Pomona.

Level of Service Impact Thresholds

Based on the performance standards established by the City of Pomona, a potentially significant Level of Service impact is defined to occur if:

Signalized Intersections:

- Any study intersection that is operating at a LOS 'A', 'B', 'C' or 'D' for any study scenario without project traffic in which the addition of project traffic causes the intersection to degrade to a LOS 'E' or 'F' shall mitigate that impact so as to bring the intersection back to at least LOS 'D'.

- Any study intersection that is operating at a LOS 'E' or 'F' for any study scenario without project traffic shall mitigate any impacts so as to bring the intersection back to the overall level of delay established prior to project traffic being added.

Unsignalized Intersections:

An impact is considered significant if the study determines that either section a) or both sections b) and c) occur:

a) The addition of project related traffic causes the intersection to move from a LOS 'D' or better to a LOS 'E' or worse; or

b) The project contributes additional traffic to an intersection that is already projected to operate at an LOS 'E' or 'F' with background traffic (per Section 3.2 b)); and

c) One or both of the following conditions are met:
1) The project adds ten (10) or more trips to any approach
2) The intersection meets the peak hour traffic signal warrant after the addition of project traffic (per Section 3.2 c)).

If a project is forecast to cause a significant traffic impact, feasible mitigation measures that will reduce the impact to a less than significant level are identified. Mitigation measures can be in many forms, including the addition of lanes, traffic control modification, or demand management measures. If no feasible mitigation measures can be identified for a significantly impacted facility, the impact will remain significant and unavoidable and a statement of overriding considerations is required.

VEHICLE MILES TRAVELED ANALYSIS (CEQA)

California Senate Bill 743 (SB 743) directs the State Office of Planning and Research (OPR) to amend the California Environmental Quality Act (CEQA) Guidelines for evaluating transportation impacts to provide alternatives to Level of Service that "promote the reduction of greenhouse gas emissions, the development of multimodal transportation networks, and a diversity of land uses." In December 2018, the California Natural Resources Agency certified and adopted the updated CEQA Guidelines package. The amended CEQA Guidelines, specifically Section 15064.3, recommend the use of vehicle miles traveled (VMT) as the primary metric for the evaluation of transportation impacts associated with land use and transportation projects. In general terms, VMT quantifies the amount and distance of automobile travel attributable to a project or region. All agencies and projects State-wide are required to utilize the updated CEQA guidelines recommending use of VMT for evaluating transportation impacts as of July 1, 2020.

The updated CEQA Guidelines allow for lead agency discretion in establishing methodologies and thresholds provided there is substantial evidence to demonstrate that the established procedures promote the intended goals of the legislation. Where quantitative models or methods are unavailable, Section 15064.3 allows

agencies to assess VMT qualitatively using factors such as availability of transit and proximity to other destinations. The Office of Planning and Research (OPR) *Technical Advisory on Evaluating Transportation Impacts in CEQA* (State of California, December 2018) ["OPR Technical Advisory"] provides technical considerations regarding methodologies and thresholds with a focus on office, residential, and retail developments as these projects tend to have the greatest influence on VMT.

VMT Thresholds of Significance

VMT thresholds provided below are to be applied to determine potential project generated VMT impacts and project's effect on VMT impacts. In accordance with State guidance, the project effect on VMT (i.e., cumulative analysis) may not require further analysis if the project level VMT impact is determined to be less than significant.

In accordance with City of Pomona Guidelines, a project would result in a significant project generated VMT impact if either of the following conditions are satisfied:

- A significant impact would occur if the VMT rate generated by the project exceeds a level of 15% below the SGVCOG Southeast Subarea baseline VMT rate for the traffic analysis zone where the project is located.

- The project results in a higher future VMT rate for the City than the future No Project.

VMT Screening Analysis

An initial VMT screening analysis is performed using the San Gabriel Valley Council of Governments (SGVCOG) VMT Evaluation Tool to assess whether the project may be presumed to result in a less than significant VMT impact based on screening criteria established by the City of Pomona. If necessary, non-screened development is required to complete detailed VMT analysis using the Southern California Association of Governments (SCAG) Regional Transportation Plan travel demand model.

As noted in the City-approved scoping agreement, the proposed project satisfies the VMT screening criteria for projects located in low VMT-generating areas; therefore, the proposed project may be presumed to result in a less than significant VMT impact and no further analysis is required. The SGVCOG VMT Evaluation Tool Report is attached to the approved scoping agreement provided in Appendix B.

3. EXISTING CONDITIONS

EXISTING ROADWAY SYSTEM

Figure 3 identifies the lane geometry and intersection traffic controls for Existing conditions based on a field survey of the study area. Regional access to the project area is provided by State Route 71 (SR-71) west of the project site and Interstate 10 (I-10) north of the project site. The key north-south roadways providing local circulation are Weber Street, Lewis Street, and Hamilton Boulevard. The key east-west roadway providing local circulation is Orange Grove Avenue.

Weber Street is a two-lane undivided roadway and is classified as a Local Street in the City of Pomona General Plan. On-street parking is generally permitted in the study area. Sidewalks are provided on both sides of the roadway north of Orange Grove Avenue.

Lewis Street is a two-lane undivided roadway and is classified as a Local Street in the City of Pomona General Plan. On-street parking is generally permitted in the study area. Sidewalks are provided on both sides of the roadway.

Hamilton Boulevard is a two-lane undivided roadway north of Orange Grove Avenue and a four-lane undivided roadway south of Orange Grove Avenue. Hamilton Boulevard is classified as a Collector in the City of Pomona General Plan. On-street parking is generally permitted in the study area. No bicycle facilities are currently provided in the study area; however, Hamilton Boulevard is identified as a potential future bicycle facility. Sidewalks are provided on both sides of the roadway.

Orange Grove Avenue is a four-lane undivided roadway west of Lewis Street, a three-lane divided roadway between Lewis Street and the Project East Driveway, and a two-lane divided roadway east of the Project East Driveway. Orange Grove Avenue is classified as a Minor Arterial in the City of Pomona General Plan. On-street parking is generally permitted in the study area. No bicycle facilities are currently provided in the study area; however, Orange Grove Avenue is identified as a potential future bicycle facility. Sidewalks are provided on both sides of the roadway.

PEDESTRIAN FACILITIES

Existing pedestrian facilities in the project vicinity are shown on Figure 4. Pedestrian sidewalks are currently provided along the project site frontage on Orange Grove Avenue.

BICYCLE ROUTES

The City of Pomona bicycle route map is illustrated on Figure 5. Dedicated Class II bicycle lanes are proposed on Orange Grove Avenue. Hamilton Boulevard is a proposed Class III bike route north of Orange Grove Avenue and dedicated Class II bicycle lanes are proposed south of Orange Grove Avenue.

TRUCK ROUTES

The City of Pomona truck route map is illustrated on Figure 6.

TRANSIT FACILITIES

Figure 7 shows the existing transit routes available in the project vicinity. The study area is currently served by Foothill Transit Route 197 along Orange Grove Avenue. As previously shown on Figure 4, transit stops are provided at the adjacent intersections of Lewis Street/Orange Grove Avenue and Hamilton Boulevard/Orange Grove Avenue.

General Plan Context

Figure 8 shows the City of Pomona General Plan Mobility and Access Component roadway classifications map. This figure shows the nature and extent of arterial and collector highways that are needed to adequately serve the ultimate development depicted by the Land Use Element of the General Plan. The City of Pomona standard roadway cross-sections are illustrated on Figure 9.

Existing Roadway Volumes

Figure 10 shows the Existing average daily traffic volumes for reference by other technical studies. The Existing average daily traffic volumes have been factored from peak hour intersection turning movement volumes using the following formula for each intersection leg based on general relationship between peak hour and daily volume as noted in the Highway Capacity Manual:

Evening Peak Hour (Approach Volume + Exit Volume) x 10 = Leg Volume.

Existing peak hour intersection turning movement volumes are based upon adjusted AM peak period and PM peak period intersection turning movement counts obtained in November 2020 during typical weekday conditions. The AM peak period was counted between 7:00 AM and 9:00 AM and the PM peak period was counted between 4:00 PM and 6:00 PM. The actual peak hour within the peak period is the four consecutive 15 minute periods with the highest total volume when all movements are added together. Thus, the weekday PM peak hour at one intersection may be 4:45 PM to 5:45 PM if those four consecutive 15 minute periods have the highest combined volume. Intersection turning movement count worksheets are provided in Appendix C.

Due to abnormal traffic volumes associated with the COVID-19 pandemic, November 2020 counts were compared to historical 2018 counts at the White Avenue/Orange Grove Avenue intersection east of the study area. The 2018 counts were increased by an annual growth rate of two percent (2%) per year and compared to the November 2020 counts to determine an adjustment factor of 2.012 during the AM peak hour and 1.292 during the PM peak hour. This adjustment factor was then applied to the November 2020 intersection counts for the study intersections to reflect typical pre-pandemic conditions. The adjustment factor calculation is provided in Appendix C.

Figure 11 and Figure 12 show the adjusted existing AM and PM peak hour intersection turning movement volumes utilized for the Level of Service analysis. These adjusted existing year 2020 volumes serve as the baseline for development of future volume projections presented later in this report.

Existing Intersection Level of Service

The intersection Levels of Service for existing conditions have been calculated and are shown in Table 1. Existing intersection Level of Service worksheets are provided in Appendix D.

The study intersections currently operate within acceptable Levels of Service (D or better) during the peak hours for existing conditions.

Table 1
Existing Intersection Levels of Service

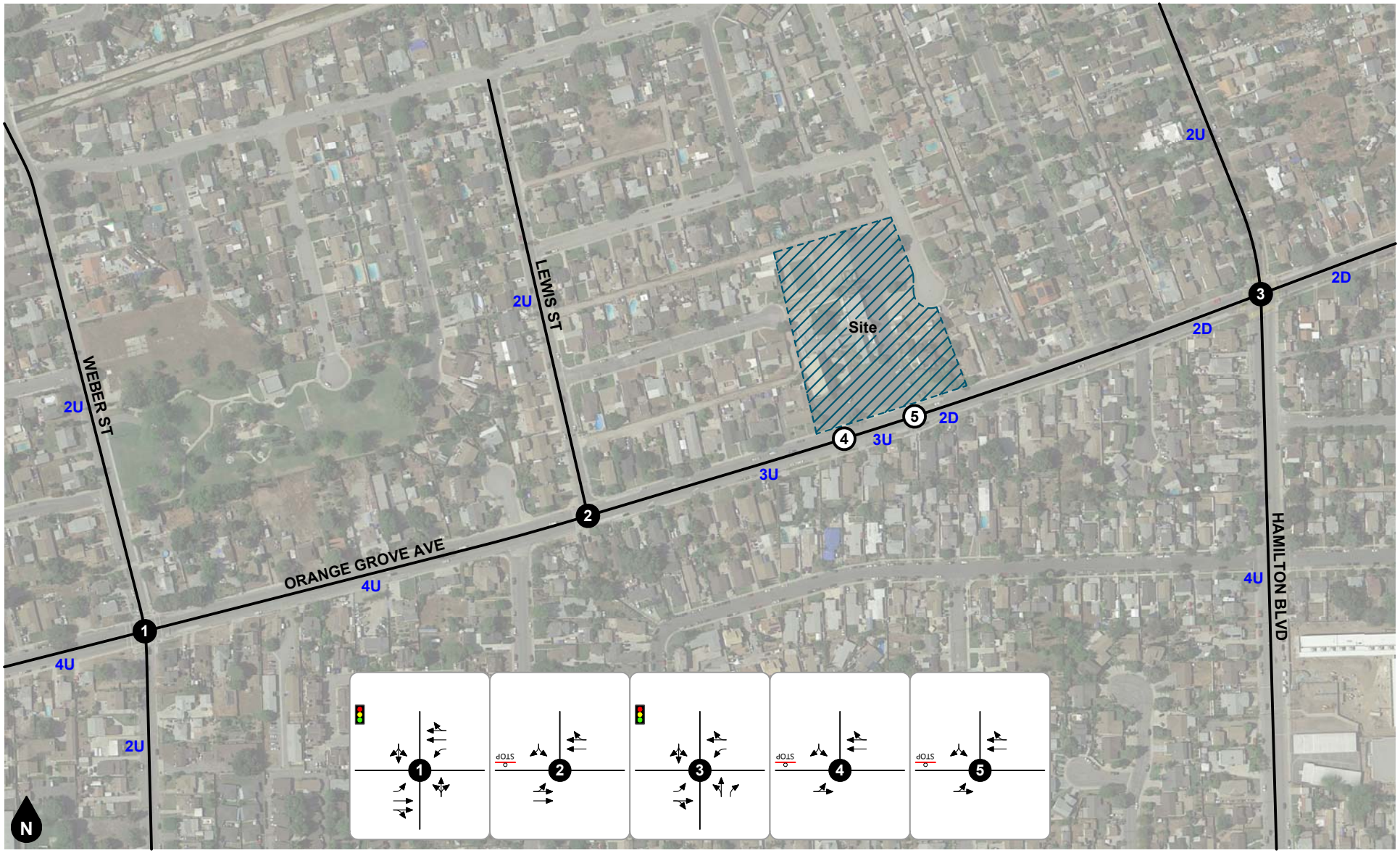
ID	Study Intersection	Traffic Control[1]	AM Peak Hour		PM Peak Hour	
			Delay[2]	LOS[3]	Delay[2]	LOS[3]
1.	Weber St at Orange Grove Ave	TS	7.0	A	6.4	A
2.	Lewis St at Orange Grove Ave	CSS	15.8	C	16.6	C
3.	Hamilton Blvd at Orange Grove Ave	TS	10.7	B	10.5	B

Notes:

(1) TS = Traffic Signal; CSS = Cross Street Stop

(2) Delay is shown in seconds/vehicle. For intersections with traffic signal or all way stop control, overall average intersection delay and LOS are shown. For intersections with cross street stop control, LOS is based on average delay of the worst individual lane (or movements sharing a lane).

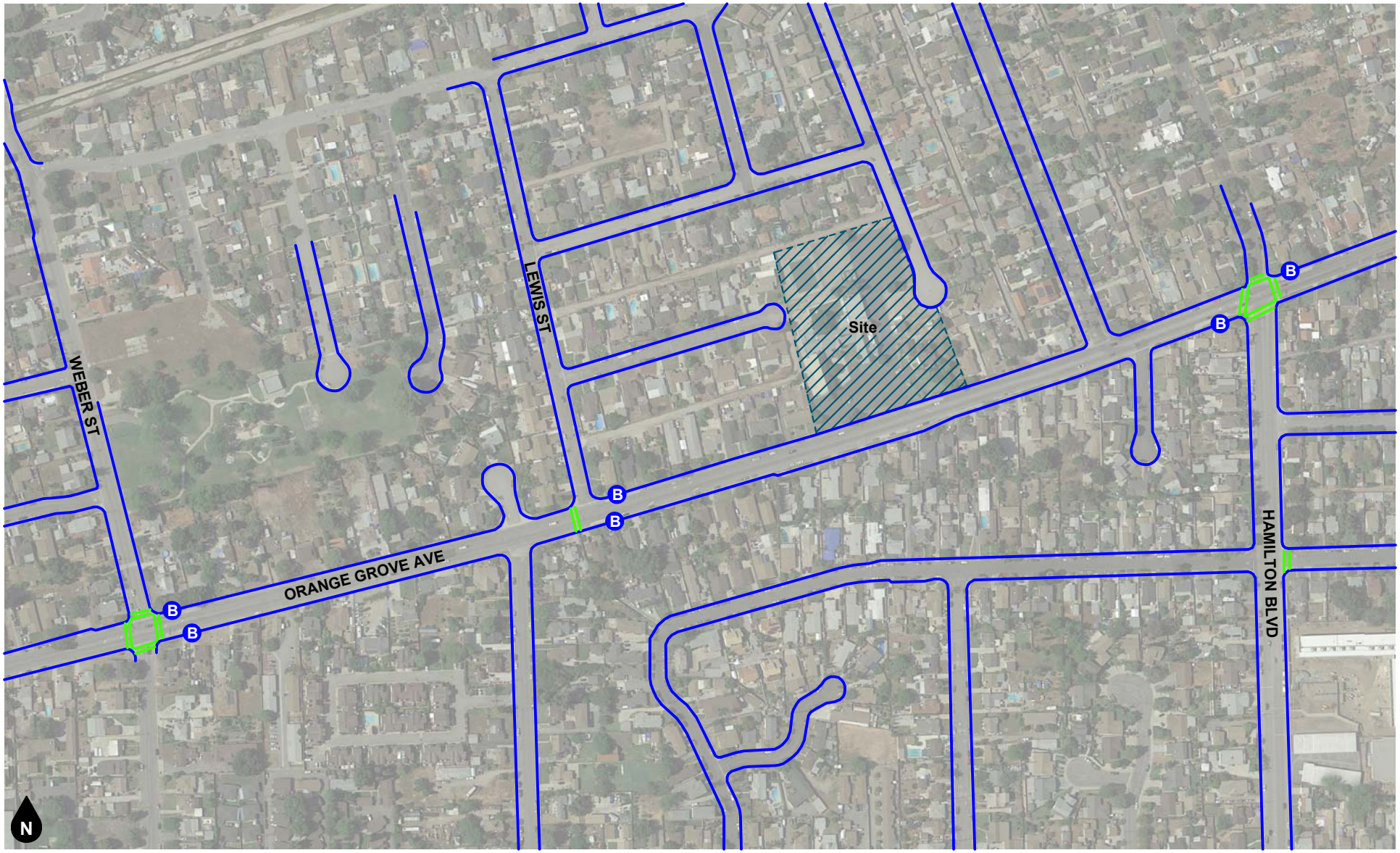
(3) LOS = Level of Service



Legend

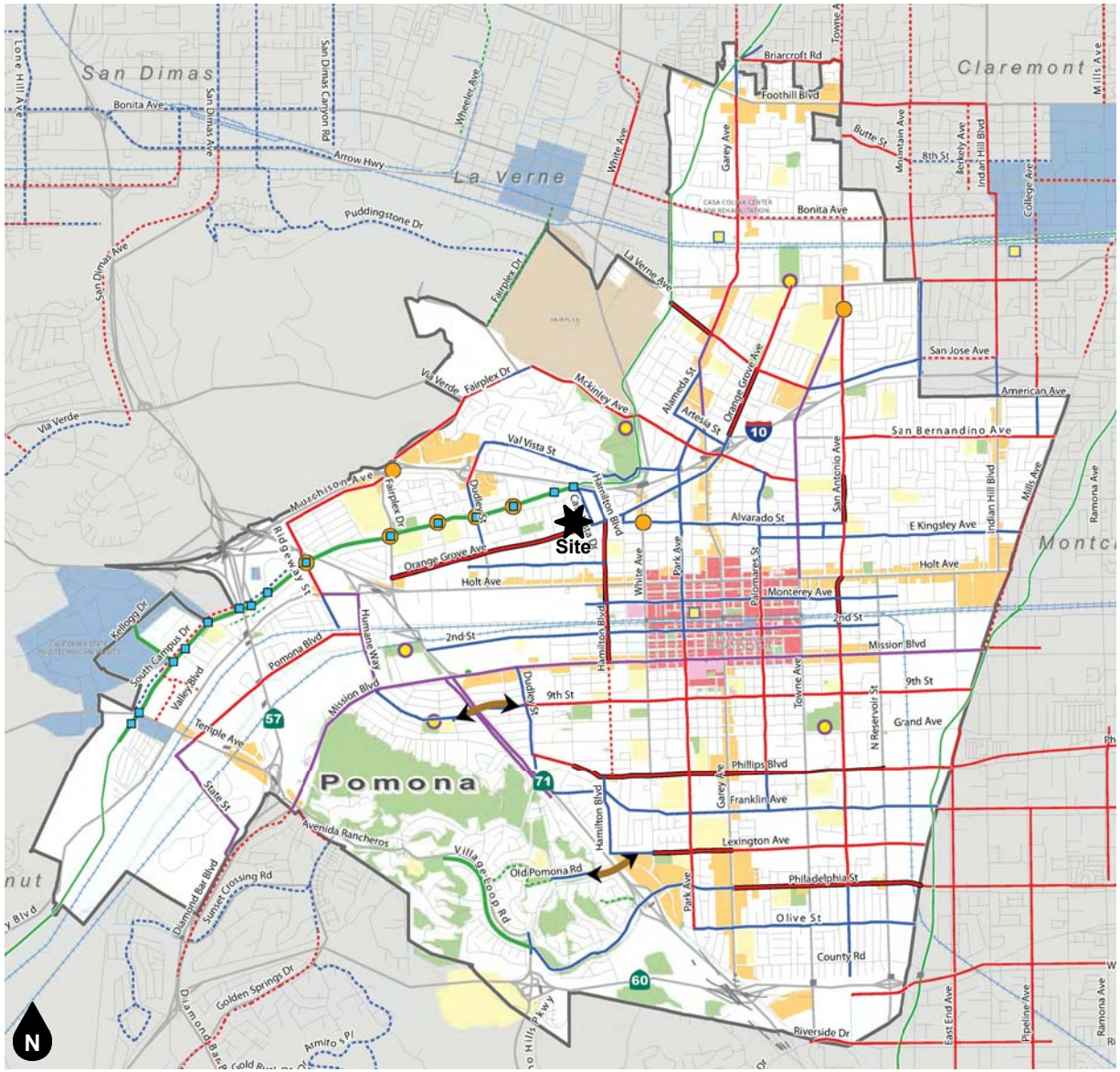
- Traffic Signal
- STOP Stop Sign
- #D #-Lane Divided Roadway
- #U #-Lane Undivided Roadway
- Existing Lane

Figure 3
Existing Lane Geometry and Intersection Traffic Controls



Legend
- Sidewalk
- Cross Walk
- B Bus Stop

Figure 4
Existing Pedestrian Facilities



Potential Future Connection
Bike Path Access Points
Intersection / Crossing Improvements

Proposed Bike Facilities

Bike Path
Bike Path (Long Term)
Bike Lane
Bike Route
Bike Lane After Road Diet
Bike Lane After Removal of Parking
Potential Future Bike Facilities
Transit Centers
Day Labor Center
Bridges
Community Centers

Existing Bike Facilities

Bike Path
Bike Lane
Bike Route
City Boundary

Zoning / Land Use

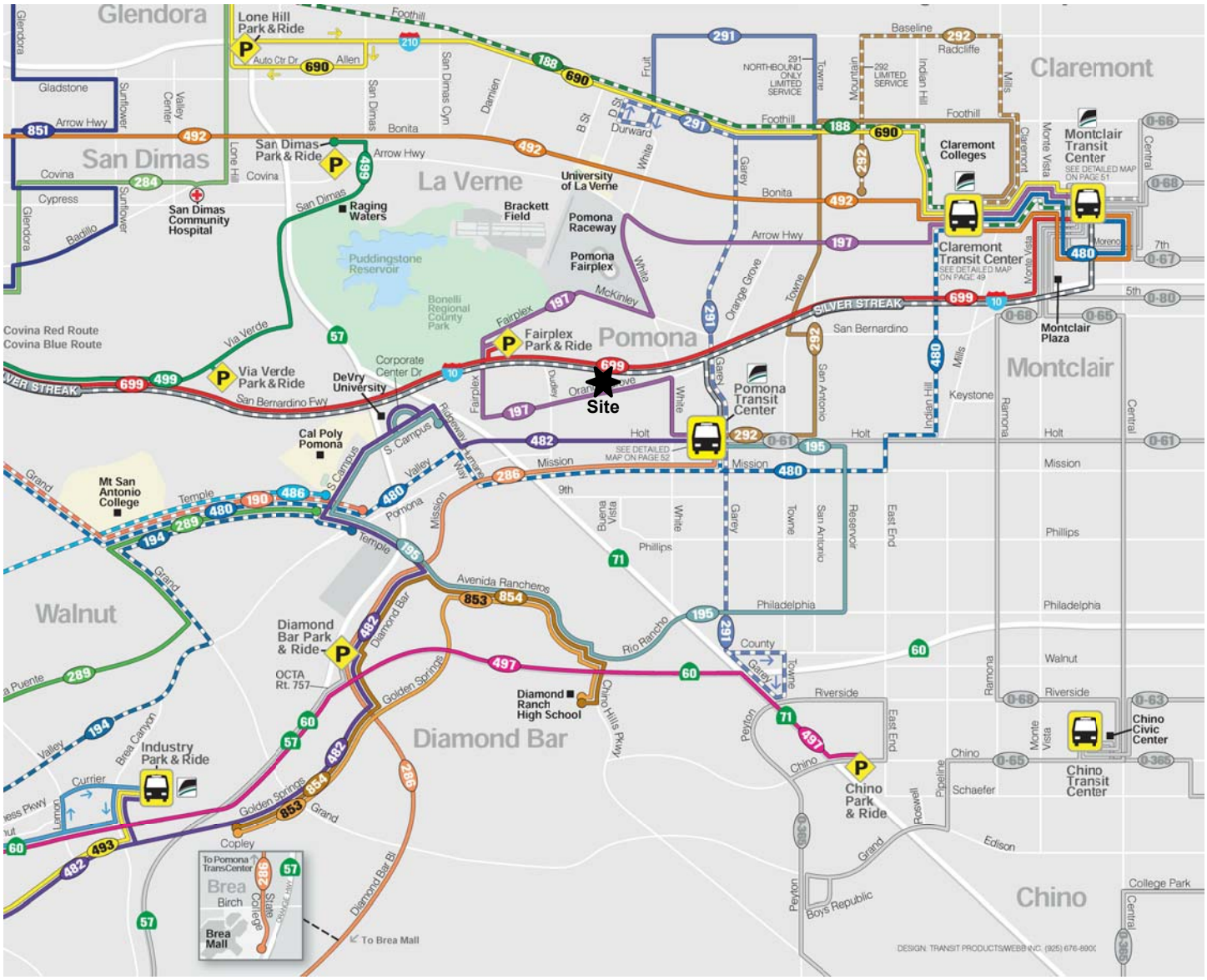
Commercial
Parks, Open Spaces, Vacant
Civic Center / Public Buildings
Fairplex
Schools
Universities
Downtown Specific Plan Area

Figure 5
City of Pomona Bicycle Routes

Source: City of Pomona

Figure 6
City of Pomona Truck Routes

Source: City of Pomona



ROUTE DESIGNATIONS

Foothill Transit lines are shown with solid route lines

Foothill Transit lines with *stops* ***every 20 minutes or less*** *during weekday service* on local routes are shown with dashed lines

Other transit lines are shown with light gray route lines

Metro routes have an "M" in the route symbol

Omitrans routes have an "O" in the route symbol

Pasadena routes have a "P" in the route symbol

INFORMATION ABOUT OTHER TRANSIT AGENCIES IS LOCATED ON PG.48 OF THE BUS BOOK

N

Figure 7
Existing Transit Routes

Source: Foothill Transit

Figure 8
City of Pomona General Plan Mobility and Access Component

Source: City of Pomona

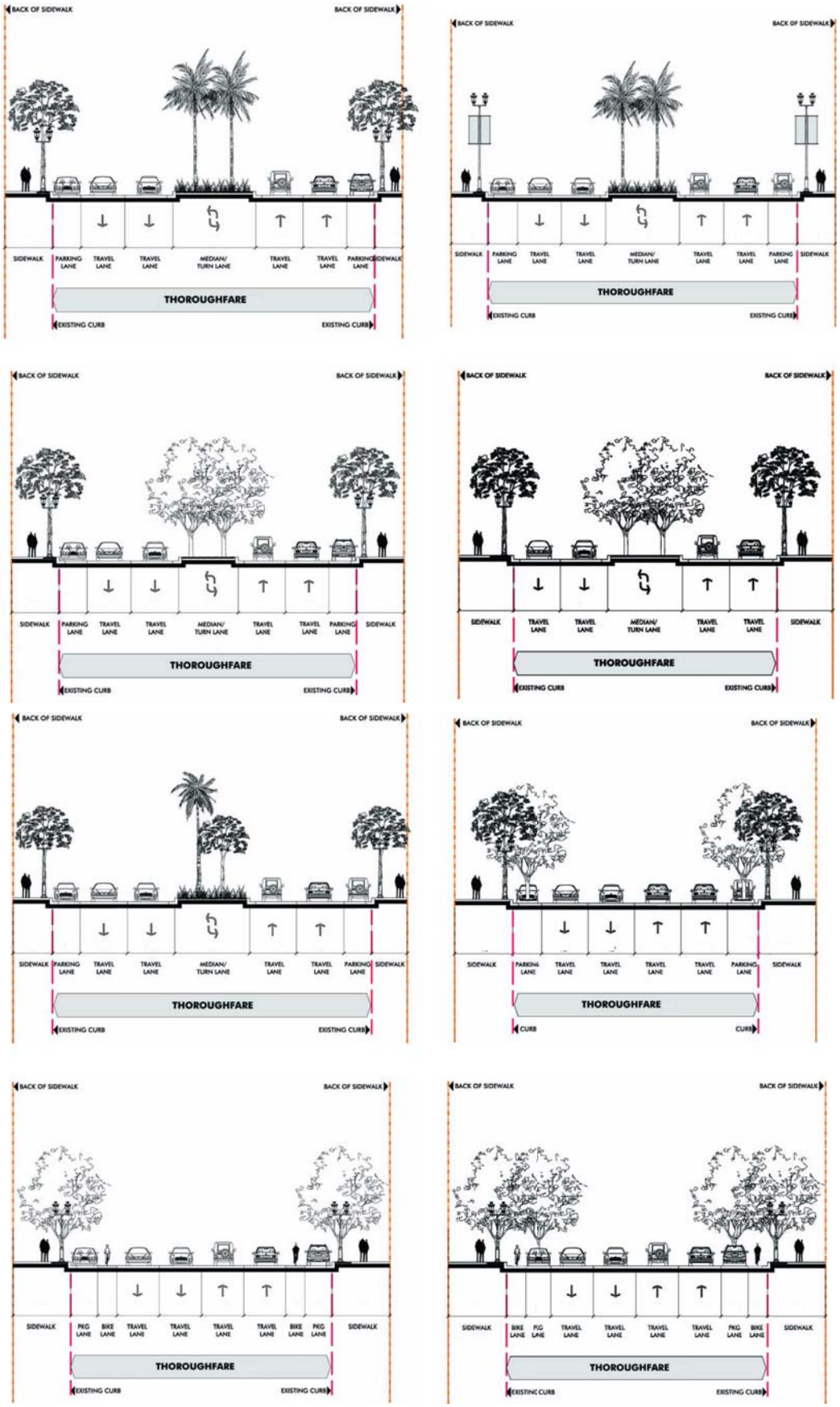
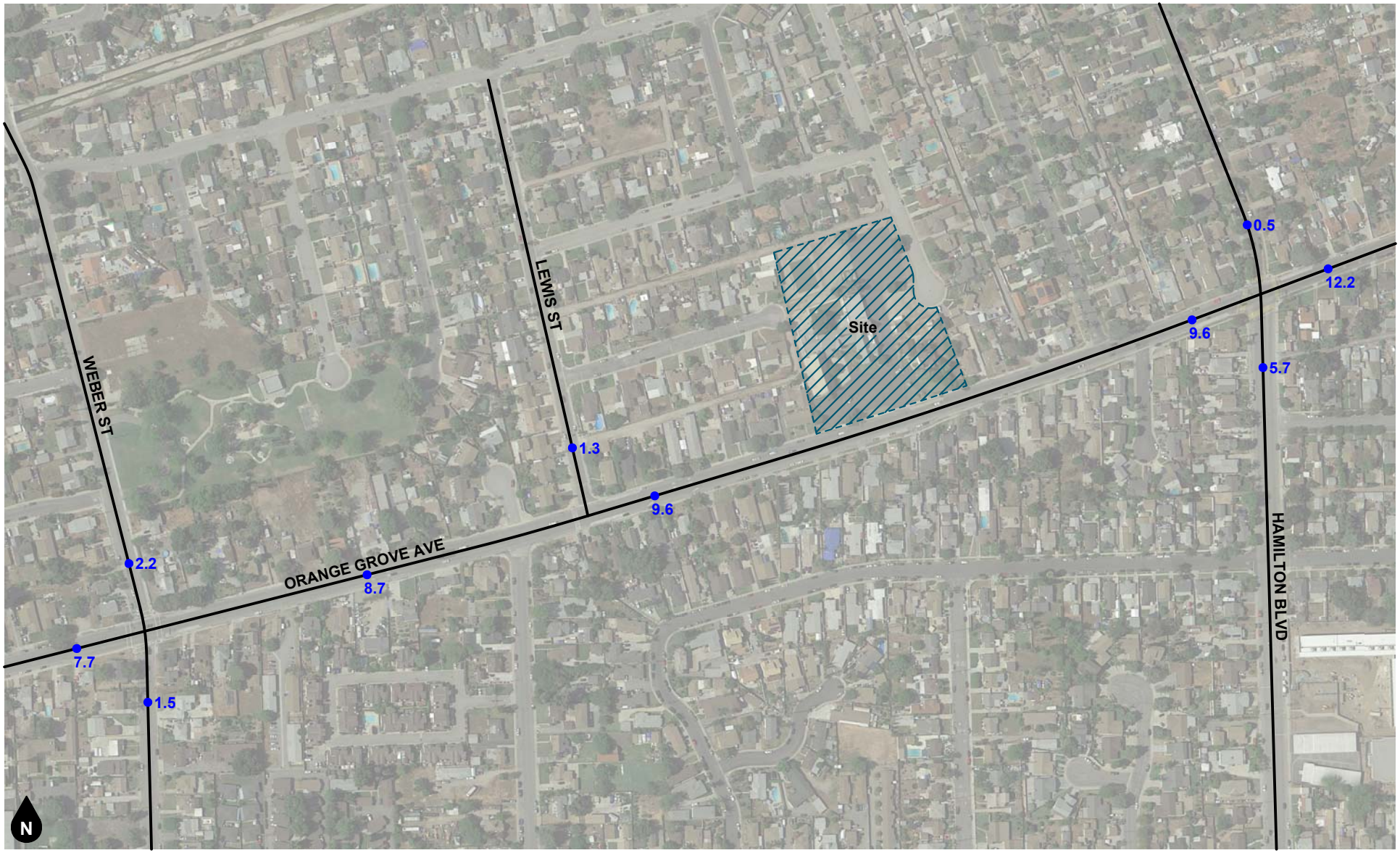


Figure 9
City of Pomona General Plan Roadway Cross-Sections

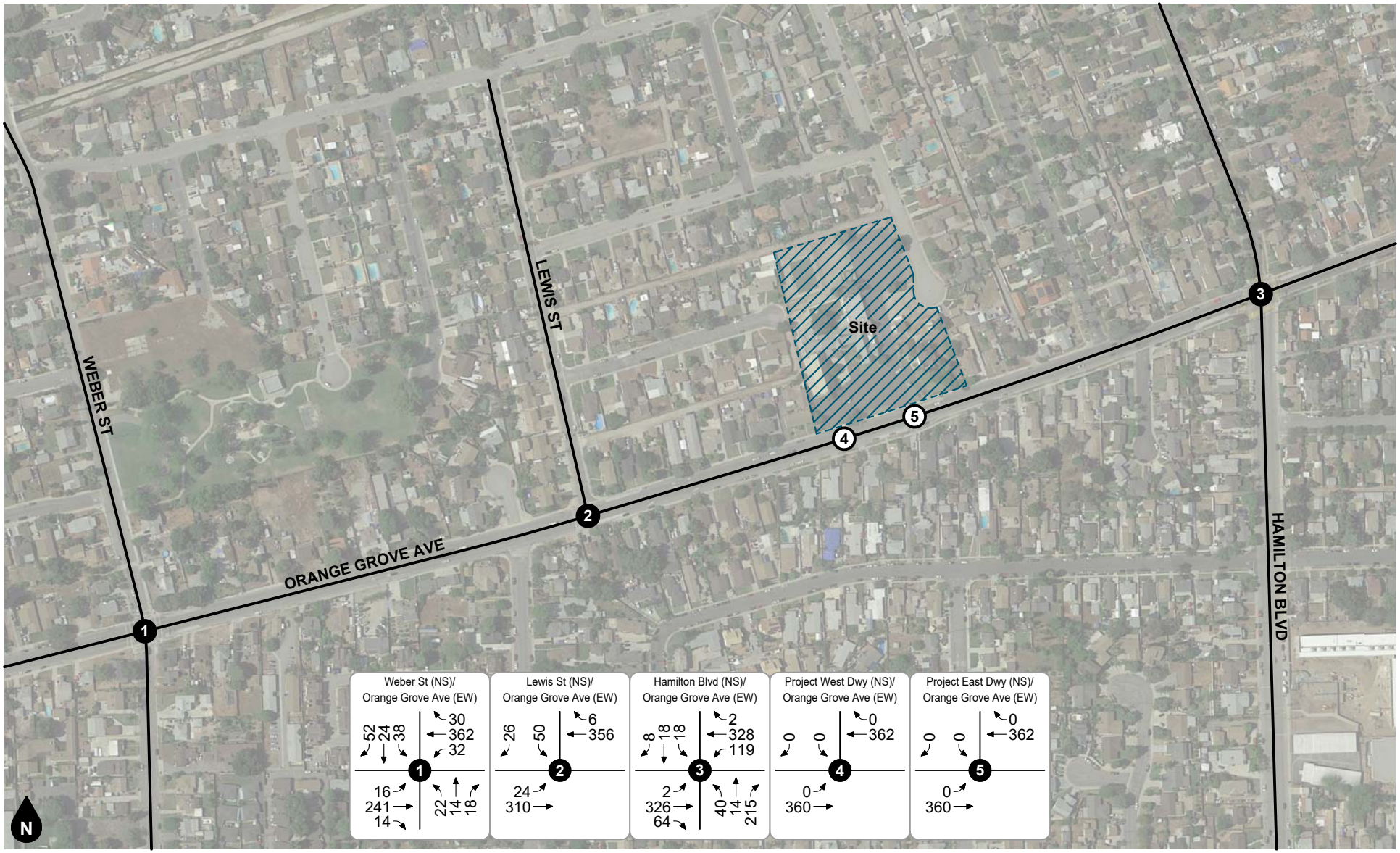
Source: City of Pomona



Legend

●## Vehicles Per Day (1,000's)

Figure 10
Existing Average Daily Traffic Volumes

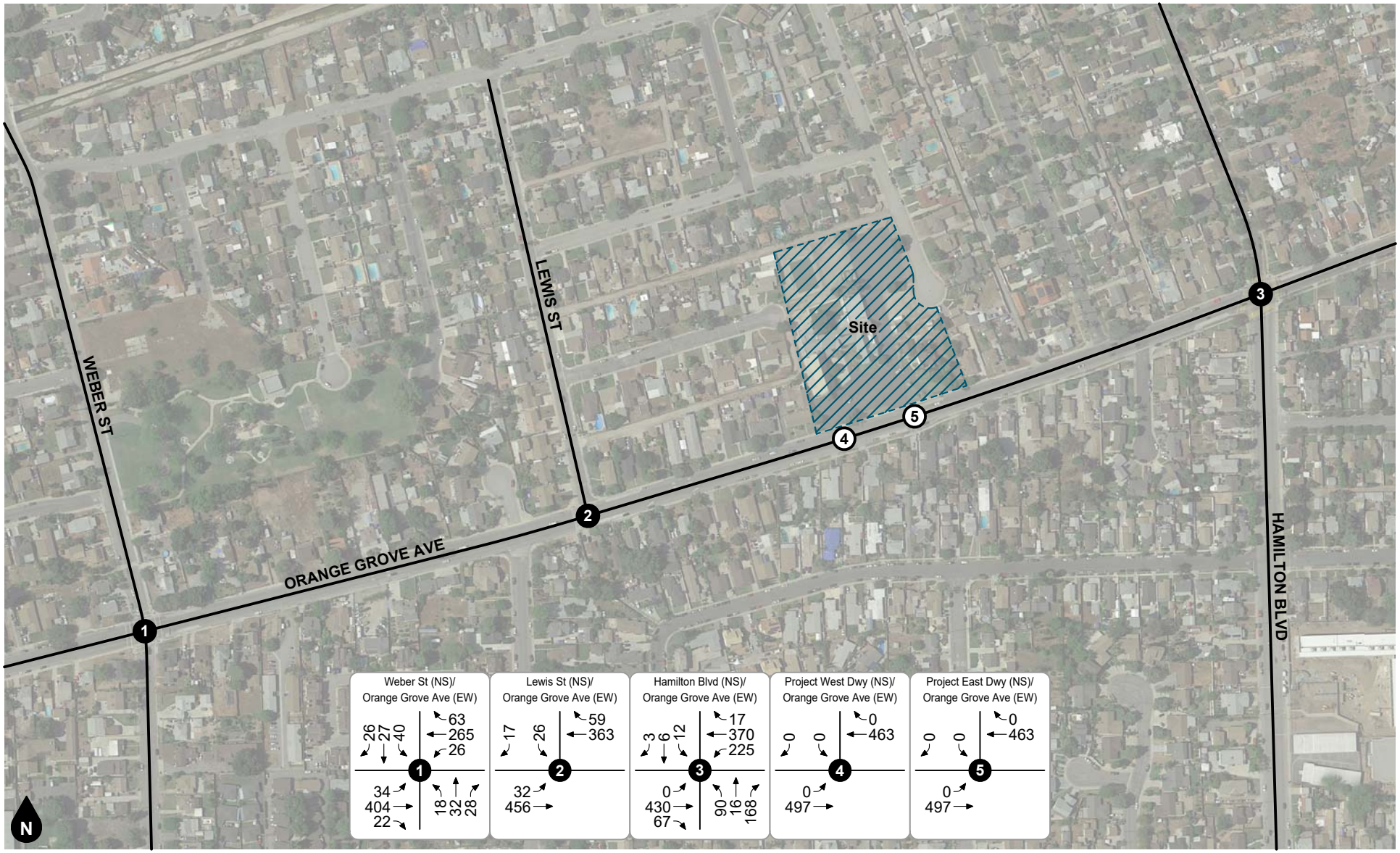


Legend

(#) Study Intersection

(#) Project Driveway

Figure 11
Existing AM Peak Hour Intersection Turning Movement Volumes



Legend

(#) Study Intersection

(#) Project Driveway

Figure 12
Existing PM Peak Hour Intersection Turning Movement Volumes

4. PROJECT TRIP FORECASTS

This section describes how project trip generation, trip distribution, and trip assignment forecasts were developed. The forecast project-only volumes are illustrated on figures contained in this section.

PROJECT TRIP GENERATION

Table 2 shows the project trip generation based upon trip generation rates obtained from the Institute of Transportation Engineers, Trip Generation Manual, 10th Edition, 2017. Trip generation rates for Land Use Code 210 (Single-Family Detached Housing) were used for the proposed project. Trip generation rates were determined for daily trips, AM peak hour trips, and PM peak hour trips for the proposed land use. The number of trips forecast to be generated by each proposed land use is determined by multiplying the trip generation rates by the land use quantity.

As shown in Table 2, the proposed project is forecast to generate a total of approximately 312 daily trips, including 24 trips during the AM peak hour and 33 trips during the PM peak hour.

PROJECT TRIP DISTRIBUTION AND ASSIGNMENT

Figure 13 shows the forecast directional distribution patterns for the project. The project trip distribution patterns were determined in consultation with City of Pomona staff and are based on review of existing volume data, surrounding land uses, and the local and regional roadway facilities in the project vicinity.

Based on the identified project trip generation and distributions, project average daily traffic volumes have been calculated and shown on Figure 14. The AM and PM peak hour intersection turning movement volumes expected from the project are depicted on Figure 15 and Figure 16.

Table 2
Project Trip Generation

Trip Generation Rates									
			AM Peak Hour			PM Peak Hour			Daily
Land Use	Source[1]	Unit[2]	% In	% Out	Rate	% In	% Out	Rate	Rate
Single-Family Detached Housing	ITE 210	DU	25%	75%	0.74	63%	37%	0.99	9.44

Trips Generated									
			AM Peak Hour			PM Peak Hour			
Land Use	Quantity	Unit[2]	In	Out	Total	In	Out	Total	Daily
875 West Orange Grove Avenue	33	DU	6	18	24	21	12	33	312

Notes:

(1) ITE = Institute of Transportation Engineers, Trip Generation Manual, 10th Edition, 2017; ### = Land Use Code

(2) DU = Dwelling Units

Legend

10% Percent To/From Project

Figure 13
Project Trip Distribution

Legend

●## Vehicles Per Day (1,000's)

Figure 14
Project Average Daily Traffic Volumes

Legend

(#) Study Intersection

(#) Project Driveway

Figure 15
Project AM Peak Hour Intersection Turning Movement Volumes

Legend

Study Intersection

(#) Project Driveway

Figure 16
Porject PM Peak Hour Intersection Turning Movement Volumes

5. FUTURE VOLUME FORECASTS

This section describes how future volume forecasts for each analysis scenario were developed. Forecast study area volumes are illustrated on figures contained in this section.

METHOD OF PROJECTION

To develop future traffic volumes, existing volumes are combined with project trips, ambient growth, and other development trips (as necessary). The opening year for analysis purposes in this report is 2023.

Ambient Growth

To account for ambient growth on roadways, existing volumes were increased by a growth rate of two percent (2%) per year over a three-year period. This equates to a total growth factor of approximately 1.06. The ambient growth was conservatively applied to all movements at the study intersections.

Other Development

According to the City of Pomona Transportation Study Guidelines for Vehicle Miles Traveled and Level of Service Assessment (October 2020):

> "For developments projected to generate fewer than 200 gross peak hour trips, the future project opening year base traffic volumes shall be estimated using an annual growth factor of two (2) percent per year or as directed by the City Traffic Engineer.
>
> If the project is expected to generate over 200 gross peak hour trips, the Project's Opening Year Background Traffic should include an annual growth factor as determined by the City Traffic Engineer plus cumulative projects (i.e. development projects that have been approved by the City but have not yet been fully occupied)."

Since the proposed project is projected to generate fewer than 200 gross peak hour trips, the two percent annual growth factor has been utilized as a suitable estimate of trips associated with other development.

ANALYSIS SCENARIO VOLUME FORECASTS

Opening Year (2023) Without Project

Opening Year (2023) Without Project volume forecasts were developed by adding ambient growth to Existing volumes. Opening Year (2023) Without Project average daily traffic volumes are shown on Figure 17. Opening Year (2023) Without Project AM and PM peak hour intersection turning movement volumes are shown Figure 18 and Figure 19.

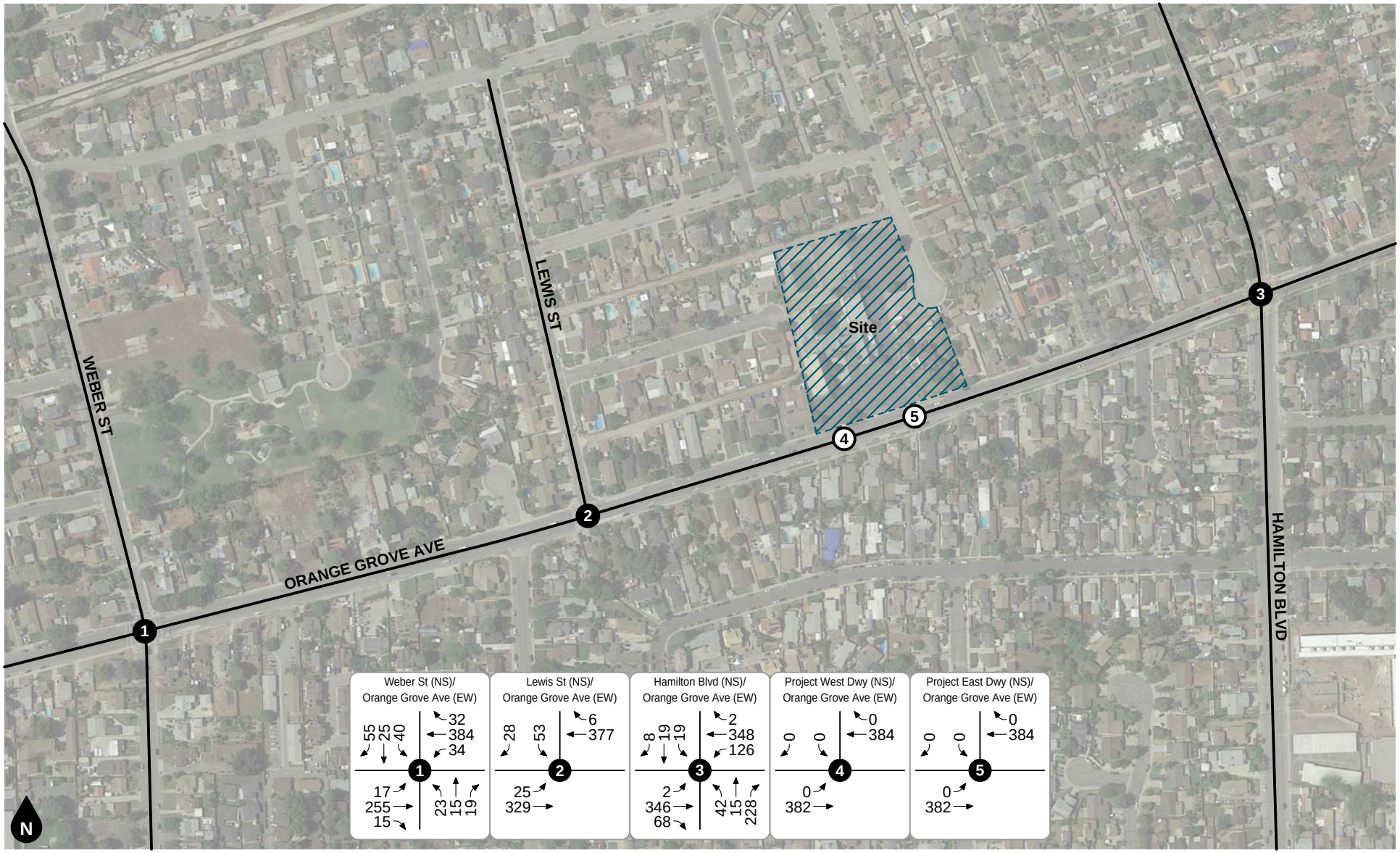
Opening Year (2023) With Project

Opening Year (2023) With Project volumes were developed by adding project generated trips to the Opening Year (2023) Without Project forecast volumes. Opening Year (2023) With Project average daily traffic volumes are shown on Figure 20. Opening Year (2023) With Project AM and PM peak hour intersection turning movement volumes are shown on Figure 21 and Figure 22.

Legend

●## Vehicles Per Day (1,000's)

Figure 17
Opening Year (2023) Without Project Average Daily Traffic Volumes

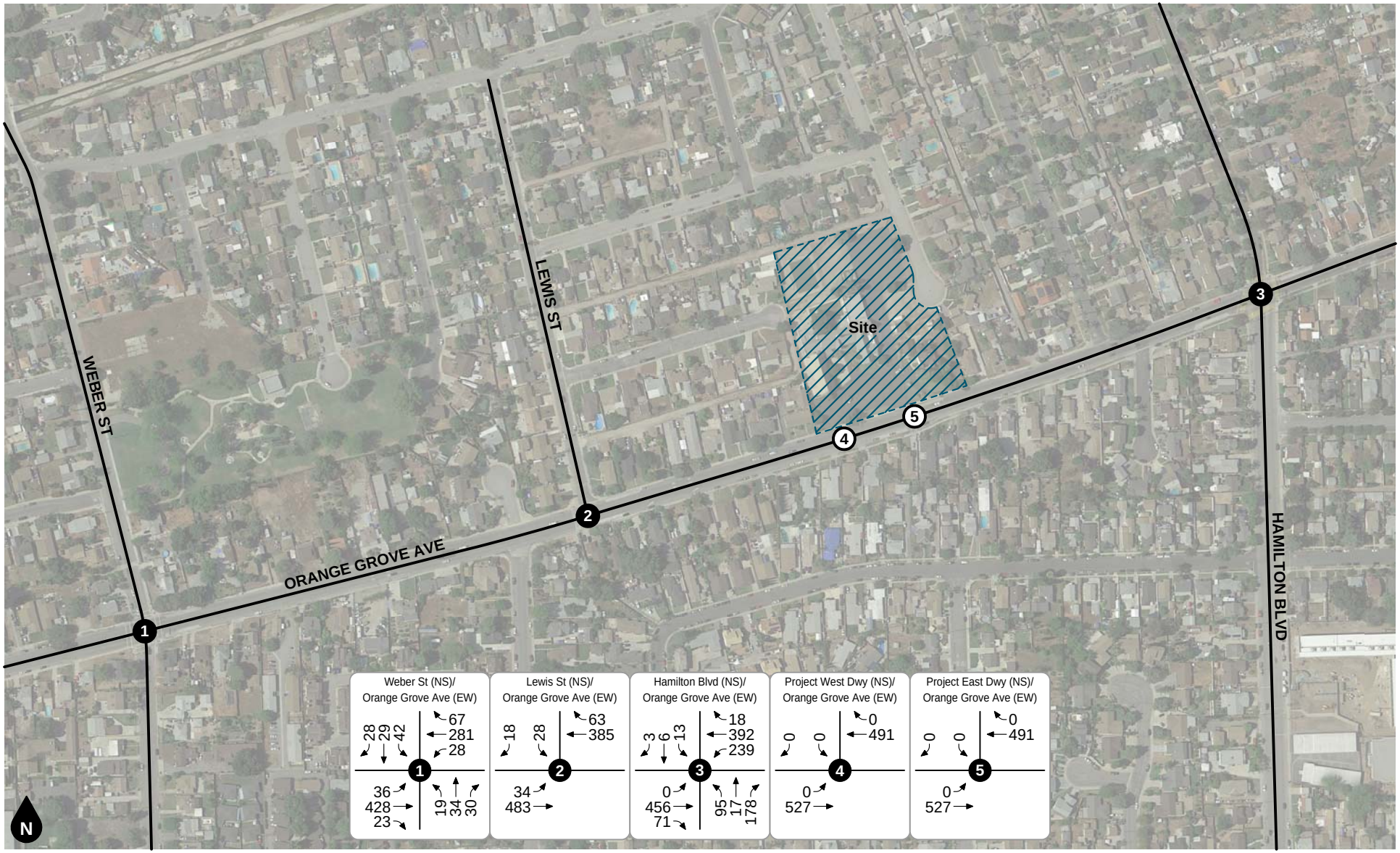


Legend

Study Intersection

(#) Project Driveway

Figure 18
Opening Year (2023) Without Project
AM Peak Hour Intersection Turning Movement Volumes



Legend

Study Intersection

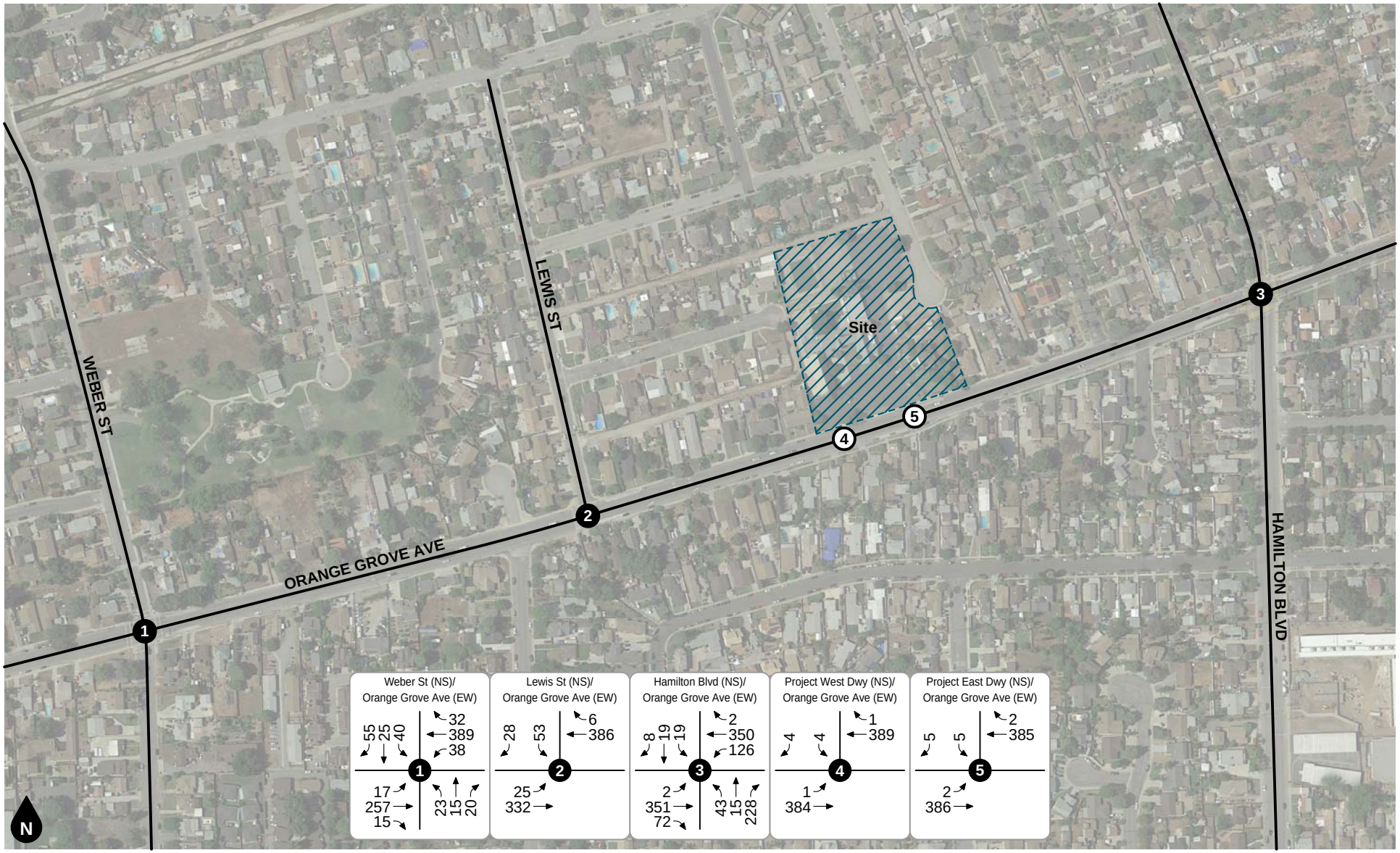
(#) Project Driveway

Figure 19
Opening Year (2023) Without Project
PM Peak Hour Intersection Turning Movement Volumes

Legend

●## Vehicles Per Day (1,000's)

Figure 20
Opening Year (2023) With Project Average Daily Traffic Volumes

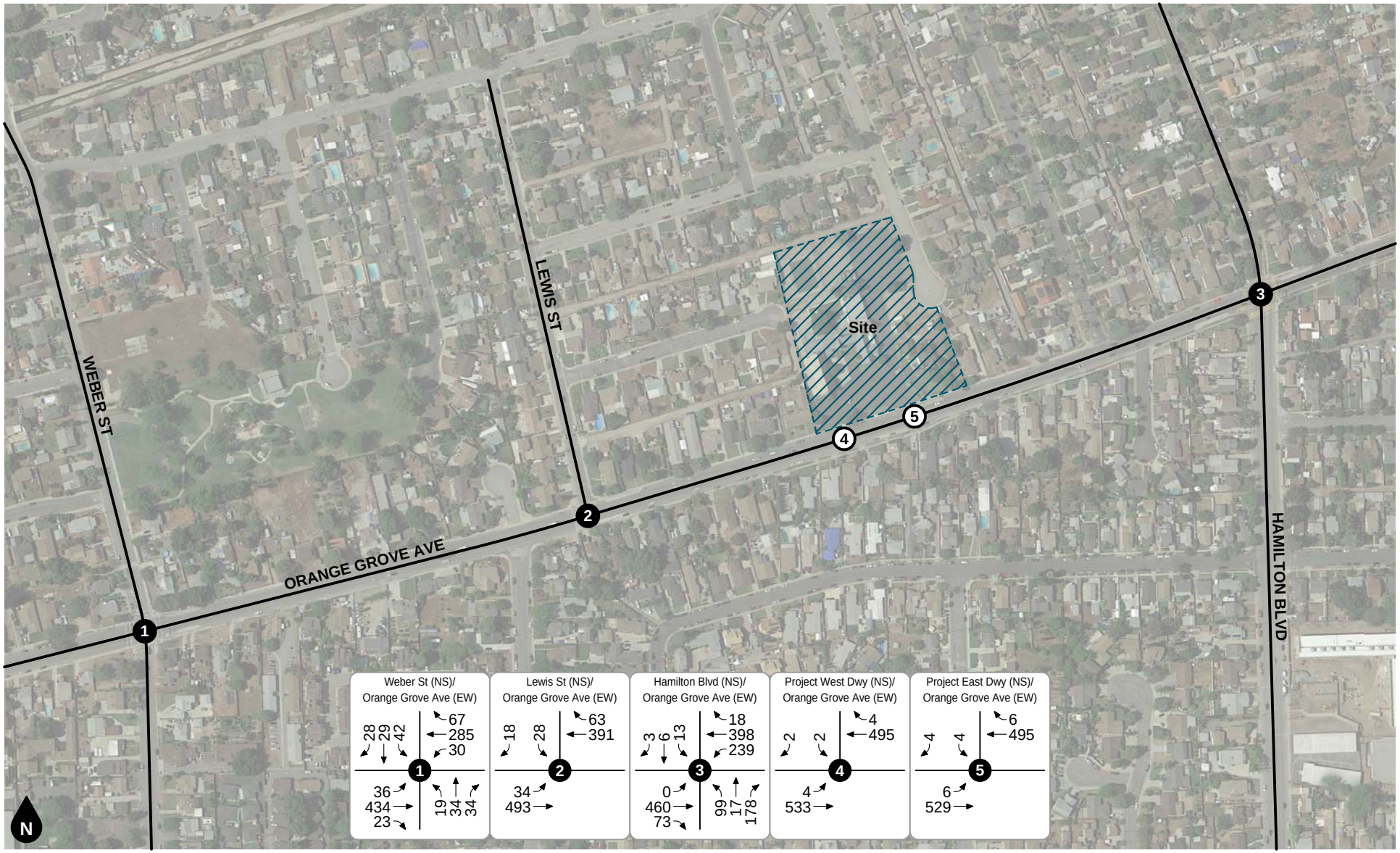


Legend

Study Intersection

(#) Project Driveway

Figure 21
Opening Year (2023) With Project
AM Peak Hour Intersection Turning Movement Volumes



Legend

Study Intersection

(#) Project Driveway

Figure 22
Opening Year (2023) With Project
PM Peak Hour Intersection Turning Movement Volumes

6. LEVEL OF SERVICE IMPACT ANALYSIS

Detailed intersection Level of Service calculation worksheets for each of the following analysis scenarios are provided in Appendix D.

OPENING YEAR (2023) WITHOUT PROJECT

The intersection Levels of Service for Opening Year (2023) Without Project conditions have been calculated and are shown in Table 3. The study intersections are forecast to operate within acceptable Levels of Service (D or better) during the peak hours for Opening Year (2023) Without Project conditions.

OPENING YEAR (2023) WITH PROJECT

The intersection Levels of Service for Opening Year (2023) With Project conditions have been calculated are shown in Table 4. The study intersections are forecast to operate within acceptable Levels of Service (D or better) during the peak hours for Opening Year (2023) With Project conditions. As such, the proposed project is forecast to result in no significant Level of Service impacts during the peak hours for Opening Year (2023) With Project conditions.

Table 3
Opening Year (2023) Without Project Intersection Levels of Service

ID	Study Intersection	Traffic Control[1]	AM Peak Hour		PM Peak Hour	
			Delay[2]	LOS[3]	Delay[2]	LOS[3]
1.	Weber St at Orange Grove Ave	TS	7.1	A	6.5	A
2.	Lewis St at Orange Grove Ave	CSS	16.6	C	17.6	C
3.	Hamilton Blvd at Orange Grove Ave	TS	11.0	B	11.2	B

Notes:

(1) TS = Traffic Signal; CSS = Cross Street Stop

(2) Delay is shown in seconds/vehicle. For intersections with traffic signal or all way stop control, overall average intersection delay and LOS are shown. For intersections with cross street stop control, LOS is based on average delay of the worst individual lane (or movements sharing a lane).

(3) LOS = Level of Service

Table 4
Opening Year (2023) With Project Intersection Levels of Service

ID	Study Intersection	Traffic Control[1]	AM Peak Hour		PM Peak Hour	
			Delay[2]	LOS[3]	Delay[2]	LOS[3]
1.	Weber St at Orange Grove Ave	TS	7.0	A	6.5	A
2.	Lewis St at Orange Grove Ave	CSS	16.9	C	17.9	C
3.	Hamilton Blvd at Orange Grove Ave	TS	11.0	B	11.2	B
4.	Project West Dwy at Orange Grove Ave	CSS	15.5	C	20.2	C
5.	Project East Dwy at Orange Grove Ave	CSS	15.5	C	20.4	C

Notes:

(1) TS = Traffic Signal; CSS = Cross Street Stop

(2) Delay is shown in seconds/vehicle. For intersections with traffic signal or all way stop control, overall average intersection delay and LOS are shown. For intersections with cross street stop control, LOS is based on average delay of the worst individual lane (or movements sharing a lane).

(3) LOS = Level of Service

7. CONGESTION MANAGEMENT PROGRAM

This section provides analysis of the project impacts at County facilities in accordance with typical Los Angeles County Congestion Management Program (CMP) requirements.

CMP ANALYSIS REQUIREMENTS

The Los Angeles County 2010 CMP, Appendix D - Guidelines for CMP Transportation Impact Analysis states that:

"In general, a CMP TIA [Transportation Impact Analysis] is required for all projects required to prepare an Environmental Impact Report (EIR) based on local determination. A TIA is not required if the lead agency for the EIR finds that traffic is not a significant issue, and does not require local or regional traffic impact analysis in the EIR."

Furthermore, the Los Angeles County CMP states that the study area for CMP TIA must include the following:

- All CMP arterial monitoring intersections, including freeway on- and off-ramp intersections, where a proposed project is expected to add 50 or more trips during either the weekday AM or PM peak hours (of adjacent street traffic).

- If CMP arterial segments are being analyzed rather than intersections (see Section D.3), the study area must include all segments where the proposed project will add 50 or more peak hour trips (total of both directions).

- Mainline freeway monitoring locations where a project is expected to add 150 or more trips, in either direction, during either the weekday AM or PM peak hours.

- Caltrans must also be consulted through the Notice of Preparation (NOP) process to identify other specific locations to be analyzed on the state highway system.

If the TIA identifies no facilities for study based on the above criteria, no further traffic analysis is required. However, projects must still consider transit impacts.

Based on the project trip assignment, the proposed project is forecast to contribute fewer than 50 or more weekday peak hour trips to a CMP-monitored intersection or 150 or more weekday peak hour trips to a mainline freeway monitoring location. Therefore, a CMP impact analysis is not required for this project.

CMP TRANSIT IMPACT REVIEW

The Los Angeles County 2010 Congestion Management Program requires documentation of existing transit services in the project vicinity and estimation of the number of trips assigned to transit.

Foothill Transit Route 197 is the only fixed route transit service within one-quarter mile radius of the project site. Express bus routes and rail service within a two-mile radius of the project site include the Los Angeles Metro Purple (Riverside) Line and the Foothill Transit Silver Streak which stop at the Pomona Transit Center approximately 1.05 miles southeast of the project site.

The Los Angeles County CMP Section D.8.4 provides the following guidelines for estimating project trips assigned to transit:

1) Multiply the total trips generated by 1.4 to convert vehicle trips to person trips.

2) For each time period, multiply the result by one of the following factors:

- 3.5% of Total Person Trips Generated for most cases, except:
- 10% primarily Residential within 1/4 mile of a CMP transit center
- 15% primarily Commercial within 1/4 mile of a CMP transit center
- 7% primarily Residential within 1/4 mile of a CMP multi-modal transportation center
- 9% primarily Commercial within 1/4 mile of a CMP multi-modal transportation center
- 5% primarily Residential within 1/4 mile of a CMP transit corridor
- 7% primarily Commercial within 1/4 mile of a CMP transit corridor
- 0% if no fixed route transit services operate within one mile of the project

Accordingly, the proposed project-generated transit trips are calculated as follows based on the passenger car trip generation previously calculated in Table 2:

- Daily: 312 passenger vehicle trips x 1.4 person-trip factor x 3.5% ≈ 15 transit trips
- AM Peak Hour: 24 passenger vehicle trips x 1.4 person-trip factor x 3.5% ≈ 1 transit trip
- PM Peak Hour: 33 passenger vehicle trips x 1.4 person-trip factor x 3.5% ≈ 2 transit trips

The proposed project is forecast to generate approximately 15 daily transit trips, including 1 transit trip during the AM peak hour and 2 transit trips during the PM peak hour, based on CMP transit trip estimation procedures. Based on the relatively low project-generated transit trip estimate, the proposed project is expected to have a marginal impact on transit service capacity.

8. SITE ACCESS AND CIRCULATION

The project driveways at Orange Grove Avenue shall provide full access.

PROJECT DESIGN FEATURES

This analysis assumes the project shall comply with the following conditions as part of the City of Pomona standard development review process:

- A construction work site traffic control plan shall comply with State standards set forth in the California Manual of Uniform Traffic Control Devices and shall be submitted to the City for review and approval prior to the issuance of a grading permit or start of construction. The plan shall identify any roadway, sidewalk, bike route, or bus stop closures and detours as well as haul routes and hours of operation. All construction related trips shall be restricted to off-peak hours to the extent possible.

- All on-site and off-site roadway design, traffic signing and striping, and traffic control improvements relating to the proposed project shall be constructed in accordance with applicable State/Federal engineering standards to the satisfaction of the City of Pomona Public Works Department.

- Site-adjacent roadways shall be constructed or repaired at their ultimate half-section width, including landscaping and parkway improvements in conjunction with development, or as otherwise required by the City of Pomona Public Works Department.

- Adequate off-street parking shall be provided to the satisfaction of City of Pomona Planning and/or Public Works Department.

- The final grading, landscaping, and street improvement plans shall demonstrate that sight distance requirements are met in accordance with applicable City of Pomona/California Department of Transportation sight distance standards.

SIGHT DISTANCE ANALYSIS

The sight distance requirements for the Project Driveways at Orange Grove Avenue were determined based on the stopping sight distance standards (Table 201.1) and corner sight distance standards (Table 405.1A) contained in the *Highway Design Manual* (California Department of Transportation, July 2020).

Based on the posted speed limit of 35 miles per hour for Orange Grove Avenue, a stopping sight distance of 250 feet is required along the path of travel. A corner sight distance of 386 feet is required for left-turns from a stop. In accordance with *Highway Design Manual* standards, the driver at the Project Driveway is assumed to be located at the centerline and setback a minimum of 10 feet plus the shoulder width of the major road, but not less than 15 feet.

Figure 23 shows the left-turn corner sight distance requirements for the Project Driveways at Orange Grove Avenue, as well as the stopping sight distance requirements. The area between the line of sight and the path of travel of the approaching vehicle on the major road is defined as the "Restricted Use Area" and should be kept clear of landscaping and objects that may interfere with the line of sight. As shown on Figure 23, there are no existing structures, objects, or landscaping that substantially obstruct the line of sight for the Project Driveways. On-street parking is permitted on the project frontage on either side of, and in between, the driveways and could potentially cause temporary sight distance obstructions. To provide adequate corner sight distance, it is recommended that on-street parking be prohibited along the project site frontage.

LEWIS STREET/ORANGE GROVE AVENUE CROSSWALK ANALYSIS

There is an existing marked pedestrian crosswalk approximately 700 feet west of the project site on the west leg of Lewis Street crossing Orange Grove Avenue. Pedestrian destinations in the crosswalk vicinity include St. Joseph's Elementary School approximately 0.3 miles south of Orange Grove Avenue. In the crosswalk vicinity, Orange Grove Avenue is a four-lane roadway without a raised median and has a posted speed limit of 35 miles per hour.

24-hour roadway segment volumes were obtained west of the Lewis Street/Orange Grove Avenue crosswalk in November 2020 on a typical weekday (see Appendix C). The average of the AM and PM peak hour adjustment factors previously discussed in Section 3 – Existing Conditions (1.652) was applied to reflect pre-pandemic daily volumes. With the daily volume adjustment factor applied, 10,847 vehicles per day cross the Lewis Street crosswalk.

The need for pedestrian crossing enhancements has been evaluated based on Federal Highway Administration research published in the *Safety Effects of Marked Versus Unmarked Crosswalks at Uncontrolled Locations* (U.S. Department of Transportation, September 2005), which analyzed five years of pedestrian crashes at 1,000 marked and 1,000 unmarked crosswalks.

Figure 24 shows the summary recommendations from the FHWA study for installing marked crosswalks at uncontrolled locations. Based on the FHWA recommendations shown on Figure 24, the Lewis Street/Orange Grove Avenue crosswalk should be enhanced with other pedestrian crossing improvements to reduce possible crash risk.

Pedestrian Crossing Enhancements

In addition to existing crosswalk pavement markings and warning signage, the following enhancements are recommended:

- Install pedestrian-activated warning lights
- Improve visibility by providing parking prohibitions

Pedestrian-Activated Warning Lights

To improve the conspicuity of the pedestrian warning sign when pedestrians desire to cross, pedestrian-activated warning lights are recommended in conjunction with the existing pedestrian crossing warning sign. Two alternatives include flashing yellow warning beacons or flashing yellow LEDs in the border of the pedestrian crossing warning sign.

Pedestrian Warning Sign with Border. (Source: FHWA)

Pedestrian activation button and Flashing LED warning beacons. (Source: FHWA)

A third possible alternative is use of a Rectangular Rapid-Flashing Beacon (RRFB). Research on RRFB devices has considered the devices to be highly successful because they achieve high rates of compliance at a lower cost compared to other more restrictive devices, such as full signalization or pedestrian hybrid beacons. RRFB devices must be used as a supplement the standard pedestrian crossing warning sign (W11-2) with a diagonal downward arrow (W16-7P) plaque. RRFB devices currently have interim approval from FHWA and require a special approval process prior to implementation. Additional details regarding RRFB devices, their application, and approval procedures, are provided in the Interim Approval 21 in Appendix E.

Example of RRFB dark (left) and illuminated during the flashing period (center and right) mounted with W11-2 and W16-7P plaque at an uncontrolled crosswalk. (Source: FHWA)

Parking Prohibitions

Visibility of the crosswalk can be improved by prohibiting on-street parking on the vehicular approaches to the crosswalk. For the westbound approach, on-street parking is already prohibited for approximately 160 feet from the crosswalk. For the eastbound approach, visibility can be improved by prohibiting on-street parking on the south side of Orange Grove Avenue between Lewis Street and the crosswalk.

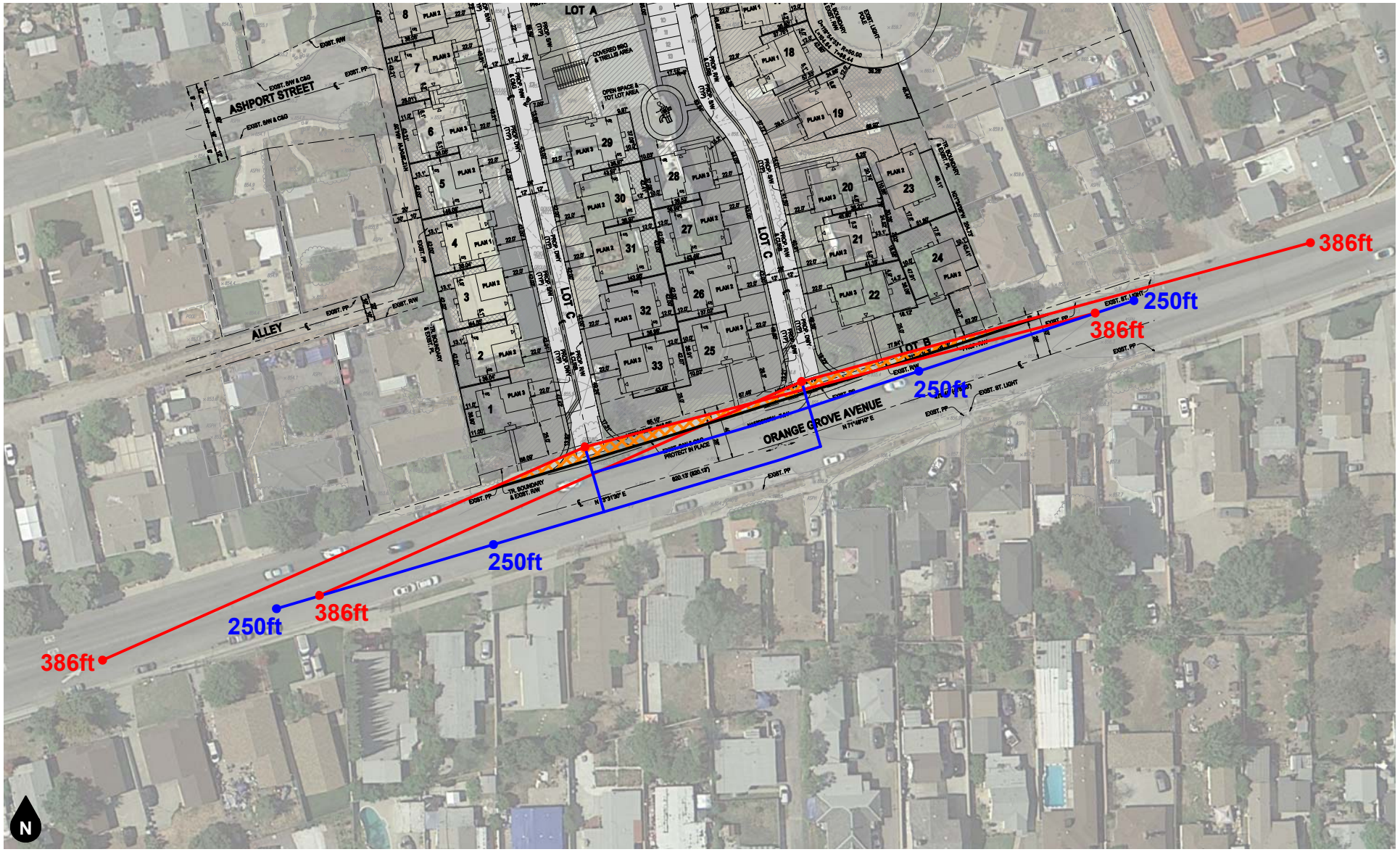
Other Measures Considered

The guidance for pedestrian hybrid beacons requires pedestrian volumes which cannot be accurately collected since in-person learning is currently restricted.

The *California Manual on Uniform Traffic Control Devices (CA MUTCD)* states that advanced yield lines and associated Yield Here to Pedestirans (R1-5, R1-5a) signs *should* be installed on roadways with four or more lanes of travel exceeding 40 miles per hour with an ADT of 12,000 or more. Although the Lewis Street/Orange Grove Avenue crosswalk does not warrant use of advanced yield signing/striping per CA MUTCD guidance, their use is not prohibited under the existing conditions and may be considered if additional enhancements are determined to be necessary.

In-street pedestrian crossing signs are not recommended since there is no median in which to place the sign.

Curb extensions would conflict with adjacent driveways.



Legend

- Corner Sight Distance (CSD)
- Stopping Sight Distance
- Restricted Use Area

CSD = 1.47 x Vm x Tg
Where Vm = Major Road Design Speed
Tg = Time Gap (Seconds)

Figure 23
Sight Distance Analysis

Roadway Type (Number of Travel Lanes and Median Type)	Vehicle ADT ≤ 9,000			Vehicle ADT >9,000 to 12,000			Vehicle ADT >12,000–15,000			Vehicle ADT > 15,000		
	Speed Limit**											
	≤ 48.3 km/h (30 mi/h)	56.4 km/h (35 mi/h)	64.4 km/h (40 mi/h)	≤ 48.3 km/h (30 mi/h)	56.4 km/h (35 mi/h)	64.4 km/h (40 mi/h)	≤ 48.3 km/h (30 mi/h)	56.4 km/h (35 mi/h)	64.4 km/h (40 mi/h)	≤ 48.3 km/h (30 mi/h)	56.4 km/h (35 mi/h)	64.4 km/h (40 mi/h)
Two lanes	C	C	P	C	C	P	C	C	N	C	P	N
Three lanes	C	C	P	C	P	P	P	P	N	P	N	N
Multilane (four or more lanes) with raised median***	C	C	P	C	P	N	P	P	N	N	N	N
Multilane (four or more lanes) without raised median	C	P	N	P	P	N	N	N	N	N	N	N

* These guidelines include intersection and midblock locations with no traffic signals or stop signs on the approach to the crossing. They do not apply to school crossings. A two-way center turn lane is not considered a median. Crosswalks should not be installed at locations that could present an increased safety risk to pedestrians, such as where there is poor sight distance, complex or confusing designs, a substantial volume of heavy trucks, or other dangers, without first providing adequate design features and/or traffic control devices. Adding crosswalks alone will not make crossings safer, nor will they necessarily result in more vehicles stopping for pedestrians. Whether or not marked crosswalks are installed, it is important to consider other pedestrian facility enhancements (e.g., raised median, traffic signal, roadway narrowing, enhanced overhead lighting, traffic-calming measures, curb extensions), as needed, to improve the safety of the crossing. These are general recommendations; good engineering judgment should be used in individual cases for deciding where to install crosswalks.

** Where the speed limit exceeds 64.4 km/h (40 mi/h), marked crosswalks alone should not be used at unsignalized locations.

*** The raised median or crossing island must be at least 1.2 m (4 ft) wide and 1.8 m (6 ft) long to serve adequately as a refuge area for pedestrians, in accordance with MUTCD and American Association of State Highway and Transportation Officials (AASHTO) guidelines.

C = Candidate sites for marked crosswalks. Marked crosswalks must be installed carefully and selectively. Before installing new marked crosswalks, an engineering study is needed to determine whether the location is suitable for a marked crosswalk. For an engineering study, a site review may be sufficient at some locations, while a more indepth study of pedestrian volume, vehicle speed, sight distance, vehicle mix, and other factors may be needed at other sites. It is recommended that a minimum utilization of 20 pedestrian crossings per peak hour (or 15 or more elderly and/or child pedestrians) be confirmed at a location before placing a high priority on the installation of a marked crosswalk alone.

P = Possible increase in pedestrian crash risk may occur if crosswalks are added without other pedestrian facility enhancements. These locations should be closely monitored and enhanced with other pedestrian crossing improvements, if necessary, before adding a marked crosswalk.

N = Marked crosswalks alone are insufficient, since pedestrian crash risk may be increased by providing marked crosswalks alone. Consider using other treatments, such as traffic-calming treatments, traffic signals with pedestrian signals where warranted, or other substantial crossing improvement to improve crossing safety for pedestrians.

Source: *Safety Effects of Marked Versus Unmarked Crosswalks at Uncontrolled Locations* (FHWA, September 2005).

Figure 24
Summary of FHWA Recommendations for Installing Marked Crosswalks

9. CONCLUSIONS

This section summarizes the findings, mitigation measures (if any), and recommendations derived from the analysis presented in previous sections of this study.

VMT Screening Analysis

The proposed project satisfies the VMT screening criteria for projects located in low VMT-generating areas; therefore, the proposed project may be presumed to result in a less than significant VMT impact.

Project Trips

The proposed project is forecast to generate a total of approximately 312 daily trips, including 24 trips during the AM peak hour and 33 trips during the PM peak hour.

Level of Service Analysis

The proposed project is forecast to result in no significant traffic impacts at the study intersections for evaluated scenarios during the AM and PM peak hour conditions.

Congestion Management Program

Based on the project trip assignment, the proposed project is forecast to contribute fewer than 50 or more weekday peak hour trips to a CMP-monitored intersection or 150 or more weekday peak hour trips to a mainline freeway monitoring location. Therefore, a CMP impact analysis is not required for this project.

Sight Distance Analysis

There are no existing structures, objects, or landscaping that substantially obstruct the line of sight for the northbound lane at Parcels Street. On-street parking is permitted on the project frontage on either side of, and in between, the driveways and could potentially cause temporary sight distance obstructions. The City may consider prohibiting on-street parking for 25 feet (one car length) on both sides of each driveway.

Lewis Street/Orange Grove Avenue Crosswalk

Based on the FHWA recommendations, the Lewis Street/Orange Grove Avenue crosswalk should be enhanced with other pedestrian crossing improvements to reduce possible crash risk.

To improve the conspicuity of the pedestrian warning sign when pedestrians desire to cross, pedestrian-activated warning lights are recommended in conjunction with the existing pedestrian crossing warning sign. Two alternatives include flashing yellow warning beacons or flashing yellow LEDs in the border of the pedestrian crossing warning sign.

APPENDICES

Appendix A Glossary
Appendix B Scoping Agreement
Appendix C Count Worksheets and Adjustment Calculations
Appendix D Level of Service Worksheets
Appendix E Interim Approval 21 – Rectangular Rapid-Flashing Beacons at Crosswalks

APPENDIX A

GLOSSARY

ACRONYMS

AC	Acres
ADT	Average Daily Traffic
Caltrans	California Department of Transportation
DU	Dwelling Unit
ICU	Intersection Capacity Utilization
LOS	Level of Service
TSF	Thousand Square Feet
V/C	Volume/Capacity
VMT	Vehicle Miles Traveled

TERMS

AVERAGE DAILY TRAFFIC: The average 24-hour volume for a stated period divided by the number of days in that period. For example, Annual Average Daily Traffic is the total volume during a year divided by 365 days.

BANDWIDTH: The number of seconds of green time available for through traffic in a signal progression.

BOTTLENECK: A point of constriction along a roadway that limits the amount of traffic that can proceed downstream from its location.

CAPACITY: The maximum number of vehicles that can be reasonably expected to pass over a given section of a lane or a roadway in a given time period.

CHANNELIZATION: The separation or regulation of conflicting traffic movements into definite paths of travel by the use of pavement markings, raised islands, or other suitable means to facilitate the safe and orderly movements of both vehicles and pedestrians.

CLEARANCE INTERVAL: Nearly same as yellow time. If there is an all red interval after the end of a yellow, then that is also added into the clearance interval.

CONTROL DELAY: The component of delay, typically expressed in seconds per vehicle, resulting from the type of traffic control at an intersection. Control delay is measured by comparison with the uncontrolled condition; it includes delay incurred by slowing down, stopping/waiting, and speeding up.

CORDON: An imaginary line around an area across which vehicles, persons, or other items are counted (in and out).

CORNER SIGHT DISTANCE: The minimum sight distance required by the driver of a vehicle to cross or enter the lanes of the major roadway without requiring approaching traffic travelling at a given speed to radically alter their speed or trajectory. Corner sight distance is measured from the driver's eye at 42 inches above the pavement to an object height of 36 inches above the pavement in the center of the nearest approach lane.

CYCLE LENGTH: The time period in seconds required for a traffic signal to complete one full cycle of indications.

CUL-DE-SAC: A local street open at one end only and with special provisions for turning around.

DAILY CAPACITY: A theoretical value representing the daily traffic volume that will typically result in a peak hour volume equal to the capacity of the roadway.

DELAY: The time consumed while traffic is impeded in its movement by some element over which it has no control, usually expressed in seconds per vehicle.

DEMAND RESPONSIVE SIGNAL: Same as traffic-actuated signal.

DENSITY: The number of vehicles occupying in a unit length of the through traffic lanes of a roadway at any given instant. Usually expressed in vehicles per mile.

DETECTOR: A device that responds to a physical stimulus and transmits a resulting impulse to the signal controller.

DESIGN SPEED: A speed selected for purposes of design. Features of a highway, such as curvature, superelevation, and sight distance (upon which the safe operation of vehicles is dependent) are correlated to design speed.

DIRECTIONAL SPLIT: The percent of traffic in the peak direction at any point in time.

DIVERSION: The rerouting of peak hour traffic to avoid congestion.

FORCED FLOW: Opposite of free flow.

FREE FLOW: Volumes are well below capacity. Vehicles can maneuver freely and travel is unimpeded by other traffic.

GAP: Time or distance between successive vehicles in a traffic stream, rear bumper to front bumper.

HEADWAY: Time or distance spacing between successive vehicles in a traffic stream, front bumper to front bumper.

INTERCONNECTED SIGNAL SYSTEM: A number of intersections that are connected to achieve signal progression.

LEVEL OF SERVICE: A qualitative measure of a number of factors, which include speed and travel time, traffic interruptions, freedom to maneuver, safety, driving comfort and convenience, and operating costs.

LOOP DETECTOR: A vehicle detector consisting of a loop of wire embedded in the roadway, energized by alternating current and producing an output circuit closure when passed over by a vehicle.

MINIMUM ACCEPTABLE GAP: Smallest time headway between successive vehicles in a traffic stream into which another vehicle is willing and able to cross or merge.

MULTI-MODAL: More than one mode; such as automobile, bus transit, rail rapid transit, and bicycle transportation modes.

OFFSET: The time interval in seconds between the beginning of green at one intersection and the beginning of green at an adjacent intersection.

PLATOON: A closely grouped component of traffic that is composed of several vehicles moving, or standing ready to move, with clear spaces ahead and behind.

PASSENGER CAR EQUIVALENT (PCE): A metric used to assess the impact of larger vehicles, such as trucks, recreational vehicles, and buses, by converting the traffic volume of larger vehicles to an equivalent number of passenger cars.

PEAK HOUR: The 60 consecutive minutes with the highest number of vehicles.

PRETIMED SIGNAL: A type of traffic signal that directs traffic to stop and go on a predetermined time schedule without regard to traffic conditions. Also, fixed time signal.

PROGRESSION: A term used to describe the progressive movement of traffic through several signalized intersections.

QUEUE: The number of vehicles waiting at a service area such as a traffic signal, stop sign, or access gate.

QUEUE LENGTH: The length of vehicle queue, typically expressed in feet, waiting at a service area such as a traffic signal, stop sign, or access gate.

SCREEN-LINE: An imaginary line or physical feature across which all trips are counted, normally to verify the validity of mathematical traffic models.

SHARED/RECIPROCAL PARKING AGREEMENT: A written binding document executed between property owners to provide a designated number of off-street parking stalls within a designated area to be available for specified businesses or land uses.

SIGHT DISTANCE: The continuous length of roadway visible to a driver or roadway user.

SIGNAL CYCLE: The time period in seconds required for one complete sequence of signal indications.

SIGNAL PHASE: The part of the signal cycle allocated to one or more traffic movements.

STACKING DISTANCE: The length of area available behind a service area, such as a traffic signal or gate, for vehicle queueing to occur.

STARTING DELAY: The delay experienced in initiating the movement of queued traffic from a stop to an average running speed through an intersection.

STOPPING SIGHT DISTANCE: The minimum distance required by the driver of a vehicle on the major roadway travelling at a given speed to bring the vehicle to a stop after an object on the road becomes visible. Stopping sight distance is measured from the driver's eye at 42 inches above the pavement to an object height of 6 inches above the pavement.

TRAFFIC-ACTUATED SIGNAL: A type of traffic signal that directs traffic to stop and go in accordance with the demands of traffic, as registered by the actuation of detectors.

TRIP: The movement of a person or vehicle from one location (origin) to another (destination). For example, from home to store to home is two trips, not one.

TRIP-END: One end of a trip at either the origin or destination (i.e., each trip has two trip-ends). A trip-end occurs when a person, object, or message is transferred to or from a vehicle.

TRIP GENERATION RATE: The quantity of trips produced and/or attracted by a specific land use stated in terms of units such as per dwelling, per acre, and per 1,000 square feet of floor space.

TRUCK: A vehicle having dual tires on one or more axles, or having more than two axles.

TURNING RADIUS: The circular arc formed by the smallest turning path radius of the front outside tire of a vehicle, such as that performed by a U-turn maneuver. This is based on the length and width of the wheel base as well as the steering mechanism of the vehicle.

UNBALANCED FLOW: Heavier traffic flow in one direction than the other. On a daily basis, most facilities have balanced flow. During the peak hours, flow is seldom balanced in an urban area.

VEHICLE MILES OF TRAVEL: A measure of the amount of usage of a section of highway, obtained by multiplying the average daily traffic by length of facility in miles.

APPENDIX B

SCOPING AGREEMENT

TRAFFIC IMPACT STUDY SCOPE
CITY OF POMONA

Project Name: 875 West Orange Grove Avenue Residential Project
Project Address: 875 West Orange Grove Avenue
Project Description: Two-story, single-family condominium development with 33 detached dwelling units

	Consultant	Developer
Name:	GANDDINI GROUP, INC.	CRESTWOOD COMMUNITIES
Address:	550 Parkcenter Drive Suite 202 Santa Ana, CA 92705	510 W. Citrus Edge Street Glendora, CA 91740
Telephone:	(714) 795-3100 x 106	(626) 914-1943
E-mail:	brandon@ganddini.com	pdiaz@crestwoodcommunities.com

A. Trip Generation

Existing Land Use Church
Existing Zoning R-1-6, 000
Proposed Land Use Detached condominiums
Proposed Zoning Planned development overlay district

	Current Trip Generation			Proposed Trip Generation		
	In	**Out**	**Total**	**In**	**Out**	**Total**
AM Trips	0	0	0	6	18	24
PM Trips	0	0	0	21	12	33

B. Trip Geographic Distribution: See Figure 3.

C. Background Traffic

Project Build-out Year 2023 **Annual Ambient Growth Rate:** 2 %

D. Study intersections:

1. Weber Street (NS) at West Orange Grove Avenue (EW)
2. Lewis Street (NS) at West Orange Grove Avenue (EW)
3. North Hamilton Boulevard (NS) at West Orange Grove Avenue (EW)
4. Project West Driveway (NS) at West Orange Grove Avenue (EW)
5. Project East Driveway (NS) at West Orange Grove Avenue (EW)

E. Specific issues to be addressed in the Study

1. Due to COVID-19, historical counts at the intersection of White Avenue/West Orange Grove Avenue from 2018 will be used to establish 2020 pre-COVID conditions. An ambient growth rate of 2% per year for two years will be used. New counts will be conducted at the study area intersections and White Avenue/West Orange Grove Avenue. The difference/growth rate between 2018 White Avenue/West Orange Grove Avenue counts with ambient growth applied (2020 pre-COVID conditions) and the new counts will then be applied to the study area intersection counts.

2. The project has been screened out of a detailed VMT analysis per the SGVCOG VMT Evaluation Tool. The screening analysis utilized the service population metric. Although the project will be replacing a church, the TAZ in which project is proposed is largely residential and is consistent with the proposed land use.

3. The existing uncontrolled crosswalk at Lewis Street/West Orange Grove Avenue will be evaluated for traffic enhancements. This will require a 24-hour vehicular tube count on the west side of the crosswalk.

4. The Orange Grove Avenue on-street parking will be evaluated near the project driveways. Parking could be proposed to be removed if sight distance needs to be accommodated or if additional lanes of through traffic are needed.

Approved By:

11/5/20

City of Pomona Traffic Engineering Date

#19314

Table 1
Project Trip Generation

Trip Generation Rates									
			AM Peak Hour			PM Peak Hour			Daily
Land Use	Source[1]	Unit[2]	% In	% Out	Rate	% In	% Out	Rate	Rate
Single-Family Detached Housing	ITE 210	DU	25%	75%	0.74	63%	37%	0.99	9.44

Trips Generated									
			AM Peak Hour			PM Peak Hour			
Land Use	Quantity	Unit[2]	In	Out	Total	In	Out	Total	Daily
875 West Orange Grove Avenue Residential Project	33	DU	6	18	24	21	12	33	312

Notes:

(1) ITE = Institute of Transportation Engineers, Trip Generation Manual, 10th Edition, 2017; ### = Land Use Code

(2) DU = Dwelling Units

Legend

Study Intersection

(#) Project Driveway

Figure 1
Project Location Map

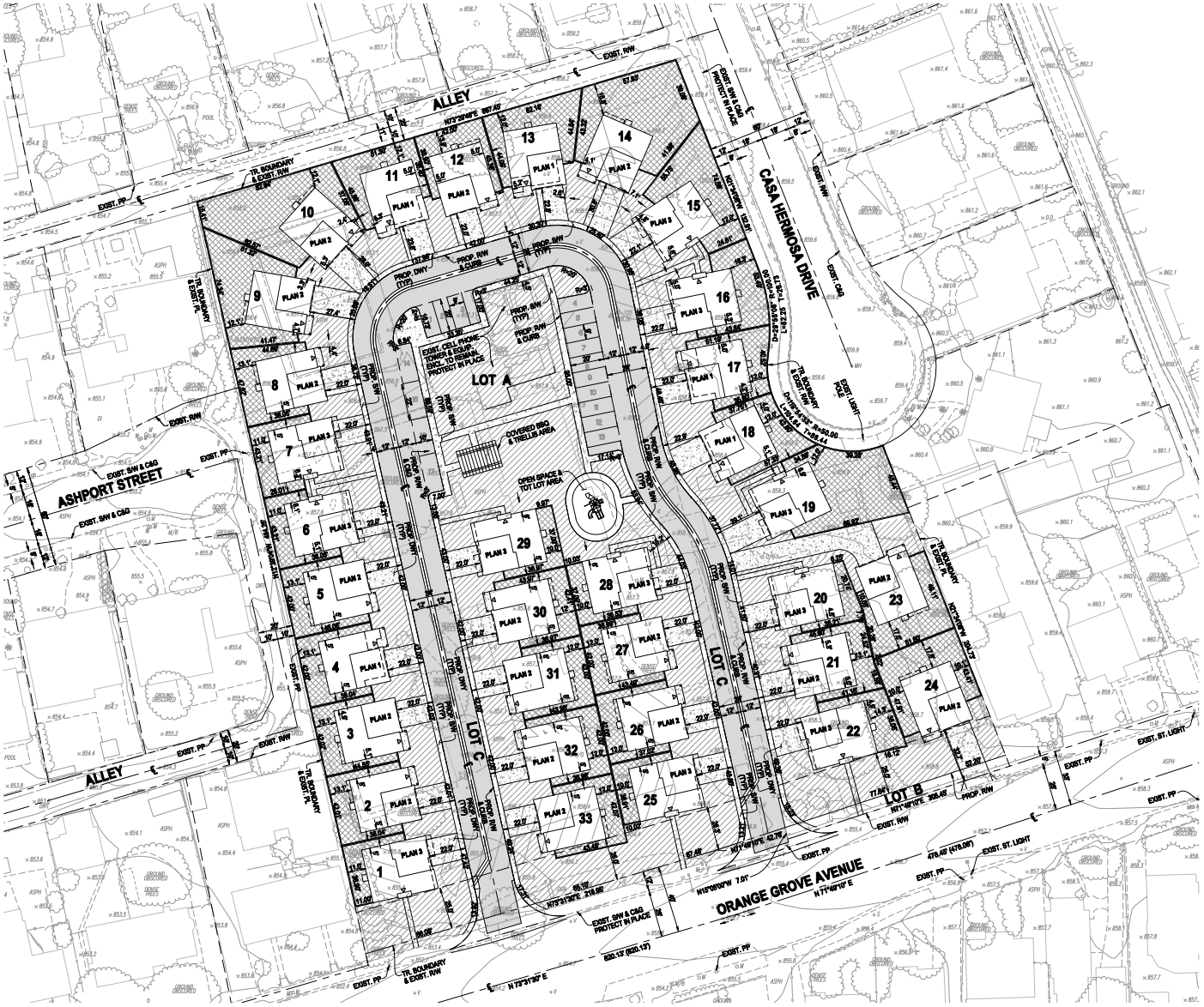


Figure 2
Site Plan

Legend

10% Percent To/From Project

Figure 3
Project Trip Distribution

SGVCOG VMT Evaluation Tool Report

Project Details

Timestamp of Analysis: November 02, 2020, 12:10:59 PM

Project Name: 875 West Orange Grove Avenue

Project Description: Two-story single-family condominium development with 33 detached dwelling units

Project Location

Jurisdiction: Pomona

APN	TAZ
8358-009-006	22425100

Inside a TPA?

No (Fail)

Analysis Details

Data Version: SCAG Regional Travel Demand Model 2016 RTP Base Year 2012

Analysis Methodology: TAZ

Baseline Year: 2012

Project Land Use

Residential:

Single Family DU:

Multifamily DU:

Total DUs: 0

Non-Residential:

Office KSF:

Local Serving Retail KSF:

Industrial KSF:

Residential Affordability (percent of all units):

Extremely Low Income: 0 %

Very Low Income: 0 %

Low Income: 0 %

Parking:

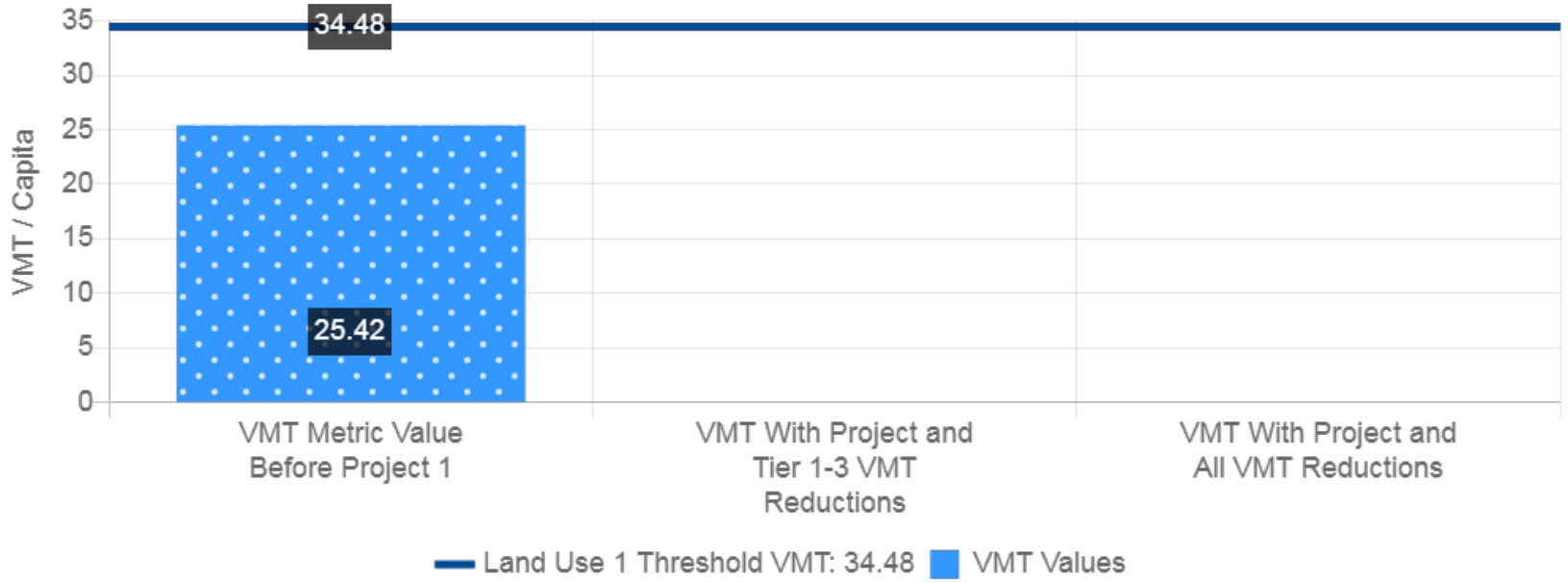
Motor Vehicle Parking:

Bicycle Parking:

Residential Vehicle Miles Traveled (VMT) Screening Results

Land Use Type 1:	Residential
VMT Without Project 1:	Total VMT per Service Population
VMT Baseline Description 1:	Subarea Average
VMT Baseline Value 1:	40.57
VMT Threshold Description 1:	-15%
Land Use 1 has been Pre-Screened by the Local Jurisdiction:	N/A

	Without Project	With Project & Tier 1-3 VMT Reductions	With Project & All VMT Reductions
Project Generated Vehicle Miles Traveled (VMT) Rate	25.42	null	null
Low VMT Screening Analysis	Yes (Pass)	null	null



APPENDIX C

COUNT WORKSHEETS AND ADJUSTMENT CALCULATIONS

INTERSECTION TURNING MOVEMENT COUNTS

T218

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tue, Nov 10, 20

LOCATION: Pomona
NORTH & SOUTH: Lewis
EAST & WEST: Orange Grove

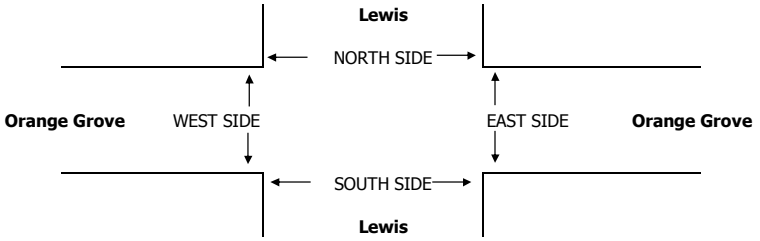
PROJECT #: SC2722
LOCATION #: 2
CONTROL: STOP S

NOTES:

AM PM MD OTHER OTHER — ▲ N, ◄ W, E ►, S ▼

☐ Add U-Turns to Left Turns

		NORTHBOUND Lewis			SOUTHBOUND Lewis			EASTBOUND Orange Grove			WESTBOUND Orange Grove				U-TURNS				
	LANES:	NL X	NT X	NR X	SL 0	ST X	SR 0	EL 0	ET 2	ER X	WL X	WT 2	WR 0	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
AM	7:00 AM	0	0	0	3	0	2	0	22	0	0	17	1	45	0	0	0	0	0
	7:15 AM	0	0	0	3	0	4	0	29	0	0	38	4	78	0	0	0	0	0
	7:30 AM	0	0	0	4	0	2	0	28	0	0	45	1	80	0	0	0	0	0
	7:45 AM	0	0	0	5	0	3	0	36	0	0	44	2	90	0	0	0	0	0
	8:00 AM	0	0	0	5	0	4	3	37	0	0	47	0	96	0	0	0	0	0
	8:15 AM	0	0	0	4	0	3	5	39	0	0	59	1	111	0	0	0	0	0
	8:30 AM	0	0	0	5	0	3	2	29	0	0	43	1	83	0	0	0	1	1
	8:45 AM	0	0	0	11	0	3	2	49	0	0	28	1	94	0	0	0	0	0
	VOLUMES	0	0	0	40	0	24	12	269	0	0	321	11	678	0	0	0	1	1
	APPROACH %	0%	0%	0%	63%	0%	38%	4%	96%	0%	0%	96%	3%						
	APP/DEPART	0	/	23	64	/	0	281	/	310	333	/	345	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	0	0	0	25	0	13	12	154	0	0	177	3	385					
	APPROACH %	0%	0%	0%	66%	0%	34%	7%	93%	0%	0%	98%	2%						
	PEAK HR FACTOR		0.000			0.679			0.814			0.754		0.867					
	APP/DEPART	0	/	15	38	/	0	166	/	180	181	/	190	0					
PM	4:00 PM	0	0	0	5	0	4	4	96	0	0	66	5	180	0	0	0	0	0
	4:15 PM	0	0	0	7	0	5	7	86	0	0	62	6	173	0	0	0	0	0
	4:30 PM	0	0	0	6	0	5	4	90	0	0	49	11	165	0	0	0	0	0
	4:45 PM	0	0	0	8	0	3	9	84	0	0	73	13	190	0	0	0	0	0
	5:00 PM	0	0	0	8	0	1	7	99	0	0	78	9	202	0	0	0	0	0
	5:15 PM	0	0	0	2	0	6	4	83	0	0	66	12	173	0	0	0	0	0
	5:30 PM	0	0	0	2	0	3	5	87	0	0	64	12	173	0	0	0	0	0
	5:45 PM	0	0	0	4	0	4	2	71	0	0	47	3	131	0	0	0	0	0
	VOLUMES	0	0	0	42	0	31	42	696	0	0	505	71	1,387	0	0	0	0	0
	APPROACH %	0%	0%	0%	58%	0%	42%	6%	94%	0%	0%	88%	12%						
	APP/DEPART	0	/	113	73	/	0	738	/	738	576	/	536	0					
	BEGIN PEAK HR		4:45 PM																
	VOLUMES	0	0	0	20	0	13	25	353	0	0	281	46	738					
	APPROACH %	0%	0%	0%	61%	0%	39%	7%	93%	0%	0%	86%	14%						
	PEAK HR FACTOR		0.000			0.750			0.892			0.940		0.913					
	APP/DEPART	0	/	71	33	/	0	378	/	373	327	/	294	0					



		PEDESTRIAN + BIKE CROSSINGS					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AM BEGIN PEAK HR			8:00 AM			0	0	0	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PM BEGIN PEAK HR			4:45 PM			0	0	0	0	0					

INTERSECTION TURNING MOVEMENT COUNTS

T218

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tue, Nov 10, 20

LOCATION: Pomona
NORTH & SOUTH: Weber
EAST & WEST: Orange Grove

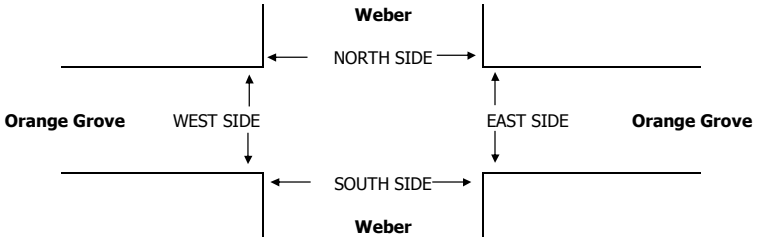
PROJECT #: SC2722
LOCATION #: 1
CONTROL: SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

☑ Add U-Turns to Left Turns

		NORTHBOUND Weber			SOUTHBOUND Weber			EASTBOUND Orange Grove			WESTBOUND Orange Grove				U-TURNS				
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 1	ET 2	ER 0	WL 1	WT 2	WR 0	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
AM	7:00 AM	0	4	0	4	3	2	2	13	1	0	17	3	49	0	0	0	0	0
	7:15 AM	0	4	3	3	6	5	1	16	1	4	39	2	84	0	0	0	0	0
	7:30 AM	3	0	1	3	4	5	1	26	4	5	37	5	94	0	0	0	0	0
	7:45 AM	3	2	1	8	4	8	3	25	2	7	38	1	102	0	0	0	0	0
	8:00 AM	2	1	2	7	3	3	1	28	2	2	42	7	100	0	0	0	0	0
	8:15 AM	3	1	4	3	1	3	3	39	2	4	55	5	123	0	0	0	0	0
	8:30 AM	3	3	2	1	4	12	1	28	1	3	45	2	105	0	0	0	0	0
	8:45 AM	1	2	4	5	4	5	4	38	0	1	31	2	97	0	0	0	0	0
	VOLUMES	15	17	17	34	29	43	16	213	13	26	304	27	754	0	0	0	0	0
	APPROACH %	31%	35%	35%	32%	27%	41%	7%	88%	5%	7%	85%	8%						
	APP/DEPART	49	/	60	106	/	68	242	/	264	357	/	362	0					
	BEGIN PEAK HR		7:45 AM																
	VOLUMES	11	7	9	19	12	26	8	120	7	16	180	15	430					
	APPROACH %	41%	26%	33%	33%	21%	46%	6%	89%	5%	8%	85%	7%						
	PEAK HR FACTOR		0.844			0.713			0.767			0.824		0.874					
	APP/DEPART	27	/	30	57	/	35	135	/	148	211	/	217	0					
PM	4:00 PM	2	1	2	10	1	1	3	80	7	9	38	14	168	0	0	0	0	0
	4:15 PM	3	9	1	9	2	5	7	83	10	1	50	11	191	0	0	0	0	0
	4:30 PM	3	6	5	8	3	4	5	75	3	5	41	8	166	0	0	0	0	0
	4:45 PM	2	7	5	7	5	4	10	84	2	4	62	8	200	0	0	0	0	0
	5:00 PM	6	6	7	8	7	4	7	83	4	5	52	13	202	0	0	0	0	0
	5:15 PM	2	5	4	6	4	9	5	73	3	7	43	13	174	0	0	0	0	0
	5:30 PM	4	7	6	10	5	3	4	73	8	4	48	15	187	0	0	0	0	0
	5:45 PM	0	11	8	9	6	8	9	61	4	6	37	4	163	0	0	0	0	0
	VOLUMES	22	52	38	67	33	38	50	612	41	41	371	86	1,451	0	0	0	0	0
	APPROACH %	20%	46%	34%	49%	24%	28%	7%	87%	6%	8%	74%	17%						
	APP/DEPART	112	/	188	138	/	115	703	/	717	498	/	431	0					
	BEGIN PEAK HR		4:45 PM																
	VOLUMES	14	25	22	31	21	20	26	313	17	20	205	49	763					
	APPROACH %	23%	41%	36%	43%	29%	28%	7%	88%	5%	7%	75%	18%						
	PEAK HR FACTOR		0.803			0.947			0.927			0.926		0.944					
	APP/DEPART	61	/	100	72	/	58	356	/	366	274	/	239	0					



		PEDESTRIAN + BIKE CROSSINGS					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AM BEGIN PEAK HR			7:45 AM			0	0	0	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PM BEGIN PEAK HR			4:45 PM			0	0	0	0	0					

INTERSECTION TURNING MOVEMENT COUNTS

T218

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

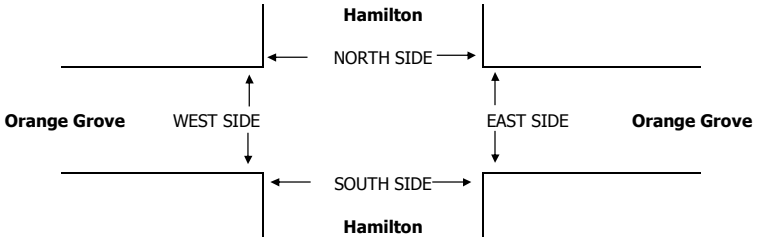
DATE:	LOCATION:	Pomona	PROJECT #:	SC2722
Tue, Nov 10, 20	NORTH & SOUTH:	Hamilton	LOCATION #:	3
	EAST & WEST:	Orange Grove	CONTROL:	SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

☑ Add U-Turns to Left Turns

		NORTHBOUND (Hamilton)			SOUTHBOUND (Hamilton)			EASTBOUND (Orange Grove)			WESTBOUND (Orange Grove)				U-TURNS				
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 1	ET 1	ER 0	WL 1	WT 1	WR 0	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
AM	7:00 AM	2	2	25	4	0	0	0	26	3	10	18	3	93	0	0	0	0	0
AM	7:15 AM	6	1	41	6	0	2	1	27	8	11	34	0	137	0	0	0	0	0
AM	7:30 AM	5	0	22	1	2	1	1	37	7	12	40	1	129	0	0	0	0	0
AM	7:45 AM	4	0	26	1	0	0	0	42	8	16	43	1	141	0	0	0	0	0
AM	8:00 AM	7	2	29	0	1	1	0	42	6	10	49	0	147	0	0	0	0	0
AM	8:15 AM	4	1	31	3	3	1	0	34	12	14	48	0	151	0	0	0	0	0
AM	8:30 AM	1	2	25	4	2	1	0	29	9	20	39	1	133	0	0	0	0	0
AM	8:45 AM	8	2	22	2	3	1	1	57	5	15	27	0	143	0	0	0	0	0
AM	VOLUMES	37	10	221	21	11	7	3	294	58	108	298	6	1,074	0	0	0	0	0
AM	APPROACH %	14%	4%	82%	54%	28%	18%	1%	83%	16%	26%	72%	1%						
AM	APP/DEPART	268	/	19	39	/	177	355	/	536	412	/	342	0					
AM	BEGIN PEAK HR	8:00 AM																	
AM	VOLUMES	20	7	107	9	9	4	1	162	32	59	163	1	574					
AM	APPROACH %	15%	5%	80%	41%	41%	18%	1%	83%	16%	26%	73%	0%						
AM	PEAK HR FACTOR	0.882			0.786			0.774			0.899			0.950					
AM	APP/DEPART	134	/	9	22	/	100	195	/	278	223	/	187	0					
PM	4:00 PM	12	1	30	1	2	2	1	87	9	36	68	4	253	0	0	0	0	0
PM	4:15 PM	12	5	36	2	2	1	2	94	6	24	57	6	247	0	0	0	0	0
PM	4:30 PM	12	2	37	2	0	1	0	82	13	40	67	2	258	0	0	0	0	0
PM	4:45 PM	24	1	25	2	1	0	0	80	9	43	76	3	264	0	0	0	0	0
PM	5:00 PM	18	5	40	3	4	0	0	89	16	52	74	5	306	0	0	0	0	0
PM	5:15 PM	16	4	28	2	0	1	0	82	14	39	69	3	258	0	0	0	0	0
PM	5:30 PM	10	1	25	2	0	0	1	78	13	29	65	3	227	0	0	0	0	0
PM	5:45 PM	9	3	19	2	1	0	1	69	12	28	48	4	196	0	0	0	0	0
PM	VOLUMES	113	22	240	16	10	5	5	661	92	291	524	30	2,009	0	0	0	0	0
PM	APPROACH %	30%	6%	64%	52%	32%	16%	1%	87%	12%	34%	62%	4%						
PM	APP/DEPART	375	/	57	31	/	393	758	/	917	845	/	642	0					
PM	BEGIN PEAK HR	4:30 PM																	
PM	VOLUMES	70	12	130	9	5	2	0	333	52	174	286	13	1,086					
PM	APPROACH %	33%	6%	61%	56%	31%	13%	0%	86%	14%	37%	60%	3%						
PM	PEAK HR FACTOR	0.841			0.571			0.917			0.903			0.887					
PM	APP/DEPART	212	/	25	16	/	231	385	/	472	473	/	358	0					



		PEDESTRIAN + BIKE CROSSINGS					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AM BEGIN PEAK HR	8:00 AM					0	0	0	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PM BEGIN PEAK HR	4:30 PM					0	0	0	0	0					

INTERSECTION TURNING MOVEMENT COUNTS

T218

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tue, Nov 10, 20

LOCATION: Pomona
NORTH & SOUTH: White
EAST & WEST: Orange Grove

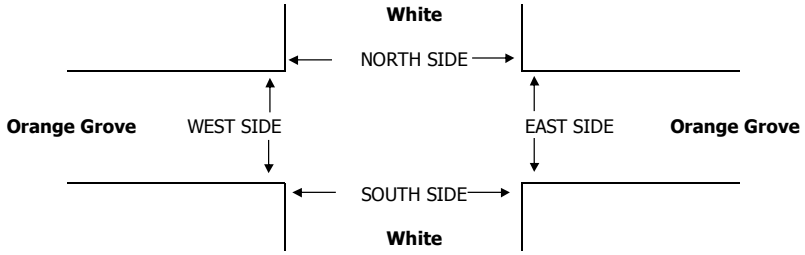
PROJECT #: SC2722
LOCATION #: 4
CONTROL: SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

☑ Add U-Turns to Left Turns

		NORTHBOUND White			SOUTHBOUND White			EASTBOUND Orange Grove			WESTBOUND Orange Grove				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 2	ER 0	WL 1	WT 1	WR 1	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
AM	7:00 AM	7	73	40	7	43	6	23	29	9	23	24	9	293	0	0	0	0	0
	7:15 AM	6	93	32	6	63	13	20	45	9	17	35	7	346	0	0	0	0	0
	7:30 AM	5	81	38	8	78	16	21	42	6	32	32	10	369	0	0	0	0	0
	7:45 AM	6	107	33	8	95	20	28	38	7	26	34	8	410	0	0	0	0	0
	8:00 AM	5	100	17	9	71	11	25	43	11	22	45	14	373	0	0	0	0	0
	8:15 AM	6	76	26	5	84	17	14	45	9	17	47	9	355	0	0	0	0	0
	8:30 AM	5	83	29	16	63	15	21	35	1	24	42	12	346	1	0	0	0	1
	8:45 AM	1	82	25	8	70	19	21	55	10	19	24	3	337	0	0	0	0	0
	VOLUMES	41	695	240	67	567	117	173	332	62	180	283	72	2,829	1	0	0	0	1
	APPROACH %	4%	71%	25%	9%	75%	16%	31%	59%	11%	34%	53%	13%						
	APP/DEPART	976	/	940	751	/	810	567	/	639	535	/	440	0					
	BEGIN PEAK HR		7:30 AM																
	VOLUMES	22	364	114	30	328	64	88	168	33	97	158	41	1,507					
	APPROACH %	4%	73%	23%	7%	78%	15%	30%	58%	11%	33%	53%	14%						
	PEAK HR FACTOR		0.856			0.858			0.915			0.914		0.919					
	APP/DEPART	500	/	493	422	/	458	289	/	312	296	/	244	0					
PM	4:00 PM	20	134	47	14	119	23	24	76	11	26	61	11	566	0	0	0	0	0
	4:15 PM	12	118	32	9	129	20	21	105	17	29	59	13	564	0	0	0	0	0
	4:30 PM	17	104	40	13	122	28	35	74	13	38	78	17	579	0	0	0	0	0
	4:45 PM	16	117	21	14	136	31	29	74	11	32	80	13	574	0	0	0	0	0
	5:00 PM	24	142	35	15	133	31	16	90	17	46	79	11	639	0	0	0	0	0
	5:15 PM	13	141	46	16	139	28	30	78	15	28	56	10	600	0	0	0	0	0
	5:30 PM	15	147	34	18	138	25	23	88	14	32	60	16	610	0	0	0	0	0
	5:45 PM	14	115	38	26	123	17	20	47	16	19	51	19	505	0	0	0	0	0
	VOLUMES	131	1,018	293	125	1,039	203	198	632	114	250	524	110	4,637	0	0	0	0	0
	APPROACH %	9%	71%	20%	9%	76%	15%	21%	67%	12%	28%	59%	12%						
	APP/DEPART	1,442	/	1,326	1,367	/	1,403	944	/	1,050	884	/	858	0					
	BEGIN PEAK HR		4:45 PM																
	VOLUMES	68	547	136	63	546	115	98	330	57	138	275	50	2,423					
	APPROACH %	9%	73%	18%	9%	75%	16%	20%	68%	12%	30%	59%	11%						
	PEAK HR FACTOR		0.934			0.989			0.970			0.851		0.948					
	APP/DEPART	751	/	695	724	/	741	485	/	529	463	/	458	0					



		PEDESTRIAN + BIKE CROSSINGS					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	AM BEGIN PEAK HR	7:30 AM					0	0	0	0	0					
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	PM BEGIN PEAK HR	4:45 PM					0	0	0	0	0					

INTERSECTION TURNING MOVEMENT COUNTS

T218

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Thu, Nov 15, 18

LOCATION: Pomona
NORTH & SOUTH: White
EAST & WEST: Orange Grove

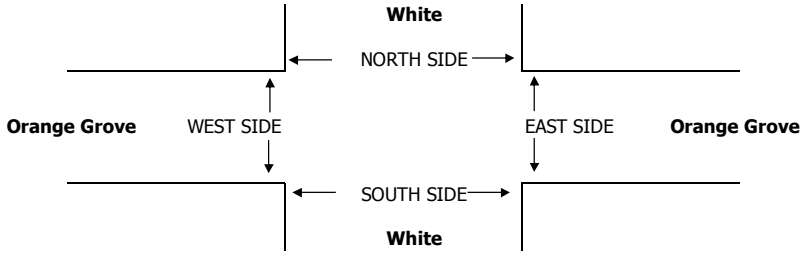
PROJECT #: SC1990
LOCATION #: 9
CONTROL: SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

☑ Add U-Turns to Left Turns

		NORTHBOUND White			SOUTHBOUND White			EASTBOUND Orange Grove			WESTBOUND Orange Grove				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 2	ER 0	WL 1	WT 1	WR 1	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL
AM	7:00 AM	10	129	39	7	78	21	33	48	6	26	44	10	451	0	0	0	0	0
	7:15 AM	20	207	47	10	100	26	42	63	20	30	58	23	646	0	0	0	0	0
	7:30 AM	22	185	62	9	156	20	32	105	18	35	90	14	748	0	0	0	0	0
	7:45 AM	19	221	59	17	196	34	42	97	23	46	86	24	864	0	0	0	0	0
	8:00 AM	21	198	42	13	148	25	31	74	9	20	61	14	656	0	0	0	0	0
	8:15 AM	10	160	34	14	144	23	22	59	15	27	78	22	608	0	0	0	0	0
	8:30 AM	6	136	34	16	101	26	27	65	11	23	39	6	490	0	0	0	0	0
	8:45 AM	15	122	40	14	109	13	27	47	12	20	47	14	480	0	2	0	0	2
	VOLUMES	123	1,358	357	100	1,032	188	256	558	114	227	503	127	4,943	0	2	0	0	2
	APPROACH %	7%	74%	19%	8%	78%	14%	28%	60%	12%	26%	59%	15%						
	APP/DEPART	1,838	/	1,743	1,320	/	1,373	928	/	1,013	857	/	814	0					
	BEGIN PEAK HR		7:15 AM																
	VOLUMES	82	811	210	49	600	105	147	339	70	131	295	75	2,914					
	APPROACH %	7%	74%	19%	6%	80%	14%	26%	61%	13%	26%	59%	15%						
	PEAK HR FACTOR		0.922			0.763			0.858			0.803		0.843					
	APP/DEPART	1,103	/	1,033	754	/	801	556	/	598	501	/	482	0					
PM	4:00 PM	18	139	40	16	160	38	35	160	35	20	77	23	761	0	1	0	0	1
	4:15 PM	22	162	36	24	171	29	37	140	21	31	61	12	746	0	0	0	0	0
	4:30 PM	20	150	33	17	168	26	33	156	19	33	53	15	723	0	0	0	0	0
	4:45 PM	18	178	50	13	152	20	38	116	26	31	91	11	744	0	0	0	0	0
	5:00 PM	23	178	45	15	149	34	21	118	25	37	78	12	735	0	0	0	0	0
	5:15 PM	12	177	38	12	168	23	27	135	29	35	83	16	755	0	0	0	0	0
	5:30 PM	10	169	31	26	168	33	26	144	30	34	85	18	774	0	1	0	0	1
	5:45 PM	16	131	28	20	133	27	26	118	29	32	79	5	644	0	0	0	0	0
	VOLUMES	139	1,284	301	143	1,269	230	243	1,087	214	253	607	112	5,882	0	2	0	0	2
	APPROACH %	8%	74%	17%	9%	77%	14%	16%	70%	14%	26%	62%	12%						
	APP/DEPART	1,724	/	1,641	1,642	/	1,736	1,544	/	1,529	972	/	976	0					
	BEGIN PEAK HR		4:45 PM																
	VOLUMES	63	702	164	66	637	110	112	513	110	137	337	57	3,008					
	APPROACH %	7%	76%	18%	8%	78%	14%	15%	70%	15%	26%	63%	11%						
	PEAK HR FACTOR		0.944			0.895			0.919			0.969		0.972					
	APP/DEPART	929	/	872	813	/	884	735	/	742	531	/	510	0					



		PEDESTRIAN + BIKE CROSSINGS					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	1	0	1	1	3	1	0	0	1	2	0	0	1	0	1
	7:15 AM	4	0	1	0	5	4	0	0	0	4	0	0	1	0	1
	7:30 AM	1	1	0	1	3	0	1	0	1	2	1	0	0	0	1
	7:45 AM	2	3	0	3	8	0	1	0	0	1	2	2	0	3	7
	8:00 AM	1	1	1	0	3	0	1	1	0	2	1	0	0	0	1
	8:15 AM	0	0	2	2	4	0	0	0	1	1	0	0	2	1	3
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1
	TOTAL	9	6	5	7	27	5	3	1	3	12	4	3	4	4	15
	AM BEGIN PEAK HR			7:15 AM			4	3	1	1	9					
PM	4:00 PM	0	1	2	1	4	0	1	1	0	2	0	0	1	1	2
	4:15 PM	1	2	3	1	7	1	2	1	1	5	0	0	2	0	2
	4:30 PM	1	1	0	1	3	1	0	0	1	2	0	1	0	0	1
	4:45 PM	2	0	1	3	6	2	0	0	2	4	0	0	1	1	2
	5:00 PM	5	4	3	7	19	5	4	3	4	16	0	0	0	3	3
	5:15 PM	2	2	0	8	12	1	2	0	8	11	1	0	0	0	1
	5:30 PM	0	1	0	1	2	0	1	0	1	2	0	0	0	0	0
	5:45 PM	1	0	1	0	2	1	0	0	0	1	0	0	1	0	1
	TOTAL	12	11	10	22	55	11	10	5	17	43	1	1	5	5	12
	PM BEGIN PEAK HR			4:45 PM			8	7	3	15	33					

Table C-1
Pre-Pandemic Adjustment Factor Calculation

AM Peak Hour					
Intersection	2018 Volume	2% Growth Per Year Factor	2020 Volume Based on Growth Rate	2020 Count Volume	Factor
White Avenue at Orange Grove Avenue	2,914	1.040	3,032	1,507	**2.012**

PM Peak Hour					
Intersection	2018 Volume	2% Growth Per Year Factor	2020 Volume Based on Growth Rate	2020 Count Volume	Factor
White Avenue at Orange Grove Avenue	3,008	1.040	3,130	2,423	**1.292**

APPENDIX D

LEVEL OF SERVICE WORKSHEETS

EXISTING

875 West Orange Avenue

Vistro File: G:\...\AM.vistro
Report File: G:\...\E AM.pdf

Scenario 1 Existing
11/23/2020

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Weber St (NS) at Orange Grove Ave (EW)	Signalized	HCM 6th Edition	SB Right	0.212	7.0	A
2	Lewis St (NS) at Orange Grove Ave (EW)	Two-way stop	HCM 6th Edition	SB Left	0.147	15.8	C
3	Hamilton Blvd (NS) at Orange Grove Ave (EW)	Signalized	HCM 6th Edition	NB Right	0.395	10.7	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: Weber St (NS) at Orange Grove Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	7.0
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.212

Intersection Setup

Name	Weber St			Weber St			Orange Grove Ave			Orange Grove Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	62.00	100.00	100.00	72.00	100.00	100.00
Speed [mph]	25.00			25.00			35.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			Yes		

Volumes

Name	Weber St			Weber St			Orange Grove Ave			Orange Grove Ave		
Base Volume Input [veh/h]	11	7	9	19	12	26	8	120	7	16	180	15
Base Volume Adjustment Factor	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	22	14	18	38	24	52	16	241	14	32	362	30
Peak Hour Factor	0.8740	0.8740	0.8740	0.8740	0.8740	0.8740	0.8740	0.8740	0.8740	0.8740	0.8740	0.8740
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	6	4	5	11	7	15	5	69	4	9	104	9
Total Analysis Volume [veh/h]	25	16	21	43	27	59	18	276	16	37	414	34
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	2.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-
Minimum Green [s]	0	7	0	0	7	0	0	7	0	0	7	0
Maximum Green [s]	0	30	0	0	30	0	0	30	0	0	30	0
Amber [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	0	22	0	0	22	0	0	38	0	0	38	0
Vehicle Extension [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall		No			No			No			No	
Maximum Recall		No			No			No			No	
Pedestrian Recall		No			No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	C	L	C	C	L	C	C
C, Cycle Length [s]	60	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	2.00	2.00	0.00	0.00	2.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	6	6	46	46	46	46	46	46
g / C, Green / Cycle	0.10	0.10	0.76	0.76	0.76	0.76	0.76	0.76
(v / s)_i Volume / Saturation Flow Rate	0.04	0.08	0.02	0.08	0.08	0.03	0.13	0.13
s, saturation flow rate [veh/h]	1708	1639	957	1800	1766	1104	1800	1753
c, Capacity [veh/h]	266	254	774	1369	1343	890	1369	1333
d1, Uniform Delay [s]	24.90	25.95	3.07	1.87	1.88	2.85	1.97	1.97
k, delay calibration	0.11	0.11	0.50	0.50	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.45	1.57	0.06	0.16	0.16	0.09	0.26	0.27
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.23	0.51	0.02	0.11	0.11	0.04	0.17	0.17
d, Delay for Lane Group [s/veh]	25.34	27.51	3.13	2.03	2.04	2.93	2.23	2.24
Lane Group LOS	C	C	A	A	A	A	A	A
Critical Lane Group	No	Yes	No	No	No	No	No	Yes
50th-Percentile Queue Length [veh/ln]	0.82	1.82	0.05	0.20	0.20	0.09	0.32	0.32
50th-Percentile Queue Length [ft/ln]	20.56	45.54	1.28	4.92	4.91	2.37	8.02	7.93
95th-Percentile Queue Length [veh/ln]	1.48	3.28	0.09	0.35	0.35	0.17	0.58	0.57
95th-Percentile Queue Length [ft/ln]	37.01	81.96	2.31	8.86	8.83	4.27	14.43	14.28

Movement, Approach, & Intersection Results

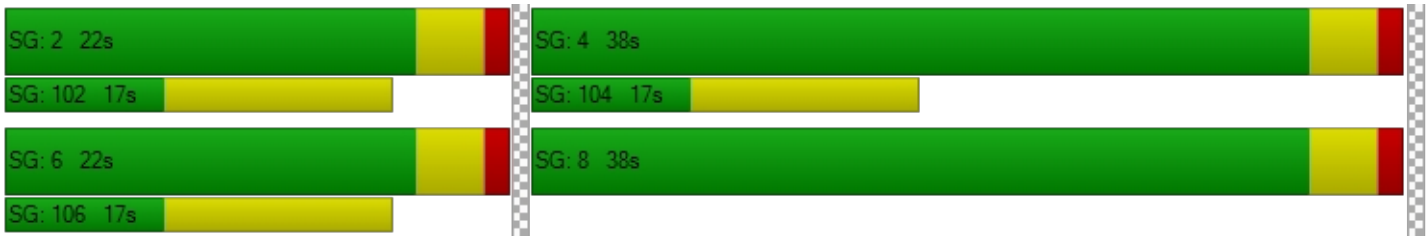
d_M, Delay for Movement [s/veh]	25.34	25.34	25.34	27.51	27.51	27.51	3.13	2.04	2.04	2.93	2.23	2.24
Movement LOS	C	C	C	C	C	C	A	A	A	A	A	A
d_A, Approach Delay [s/veh]	25.34			27.51			2.10			2.29		
Approach LOS	C			C			A			A		
d_I, Intersection Delay [s/veh]	6.98											
Intersection LOS	A											
Intersection V/C	0.212											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	20.01	20.01	20.01
l_p,int, Pedestrian LOS Score for Intersection	0.000	1.798	2.497	2.526
Crosswalk LOS	F	A	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	600	600	1133	1133
d_b, Bicycle Delay [s]	14.70	14.70	5.63	5.63
l_b,int, Bicycle LOS Score for Intersection	1.662	1.772	1.815	1.960
Bicycle LOS	A	A	A	A

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 2: Lewis St (NS) at Orange Grove Ave (EW)

Control Type:	Two-way stop	Delay (sec / veh):	15.8
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.147

Intersection Setup

Name	Lewis St		Orange Grove Ave		Orange Grove Ave	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		25.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		Yes		No	

Volumes

Name	Lewis St		Orange Grove Ave		Orange Grove Ave	
Base Volume Input [veh/h]	25	13	12	154	177	3
Base Volume Adjustment Factor	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	50	26	24	310	356	6
Peak Hour Factor	0.8670	0.8670	0.8670	0.8670	0.8670	0.8670
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	14	7	7	89	103	2
Total Analysis Volume [veh/h]	58	30	28	358	411	7
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane	No		
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.15	0.04	0.02	0.00	0.00	0.00
d_M, Delay for Movement [s/veh]	15.78	11.17	8.20	0.00	0.00	0.00
Movement LOS	C	B	A	A	A	A
95th-Percentile Queue Length [veh/ln]	0.67	0.67	0.06	0.03	0.00	0.00
95th-Percentile Queue Length [ft/ln]	16.67	16.67	1.60	0.80	0.00	0.00
d_A, Approach Delay [s/veh]	14.21		0.60		0.00	
Approach LOS	B		A		A	
d_I, Intersection Delay [s/veh]	1.66					
Intersection LOS	C					

Intersection Level Of Service Report
Intersection 3: Hamilton Blvd (NS) at Orange Grove Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	10.7
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.395

Intersection Setup

Name	Hamilton Blvd			Hamilton Blvd			Orange Grove Ave			Orange Grove Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	218.00	100.00	100.00	143.00	100.00	100.00
Speed [mph]	15.00			35.00			35.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Hamilton Blvd			Hamilton Blvd			Orange Grove Ave			Orange Grove Ave		
Base Volume Input [veh/h]	20	7	107	9	9	4	1	162	32	59	163	1
Base Volume Adjustment Factor	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	40	14	215	18	18	8	2	326	64	119	328	2
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	11	4	57	5	5	2	1	86	17	31	86	1
Total Analysis Volume [veh/h]	42	15	226	19	19	8	2	343	67	125	345	2
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	2.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-
Minimum Green [s]	0	7	0	0	7	0	0	7	0	0	7	0
Maximum Green [s]	0	30	0	0	30	0	0	30	0	0	30	0
Amber [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	0	39	0	0	39	0	0	21	0	0	21	0
Vehicle Extension [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall		No			No			No			No	
Maximum Recall		No			No			No			No	
Pedestrian Recall		No			No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	R	C	L	C	L	C
C, Cycle Length [s]	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	0.00	2.00	2.00	0.00	2.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	11	11	11	41	41	41	41
g / C, Green / Cycle	0.19	0.19	0.19	0.68	0.68	0.68	0.68
(v / s)_i Volume / Saturation Flow Rate	0.04	0.15	0.03	0.00	0.23	0.13	0.19
s, saturation flow rate [veh/h]	1554	1530	1574	1050	1750	991	1798
c, Capacity [veh/h]	396	287	380	701	1189	646	1222
d1, Uniform Delay [s]	20.50	23.28	20.38	5.99	4.04	7.56	3.83
k, delay calibration	0.11	0.11	0.11	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.17	4.78	0.14	0.01	0.80	0.67	0.58
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.14	0.79	0.12	0.00	0.34	0.19	0.28
d, Delay for Lane Group [s/veh]	20.66	28.06	20.52	6.00	4.83	8.23	4.41
Lane Group LOS	C	C	C	A	A	A	A
Critical Lane Group	No	Yes	No	No	Yes	No	No
50th-Percentile Queue Length [veh/ln]	0.69	3.40	0.51	0.01	1.45	0.79	1.15
50th-Percentile Queue Length [ft/ln]	17.19	84.88	12.73	0.25	36.29	19.79	28.82
95th-Percentile Queue Length [veh/ln]	1.24	6.11	0.92	0.02	2.61	1.42	2.07
95th-Percentile Queue Length [ft/ln]	30.95	152.78	22.92	0.45	65.31	35.62	51.87

Movement, Approach, & Intersection Results

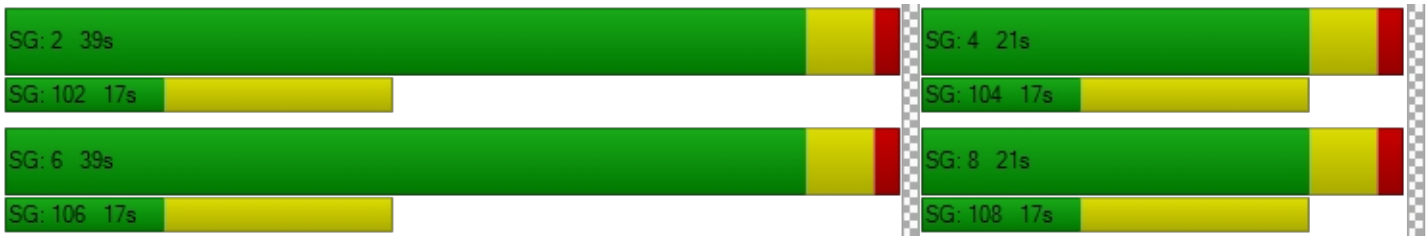
d_M, Delay for Movement [s/veh]	20.66	20.66	28.06	20.52	20.52	20.52	6.00	4.83	4.83	8.23	4.41	4.41
Movement LOS	C	C	C	C	C	C	A	A	A	A	A	A
d_A, Approach Delay [s/veh]	26.57			20.52			4.84			5.43		
Approach LOS	C			C			A			A		
d_I, Intersection Delay [s/veh]	10.73											
Intersection LOS	B											
Intersection V/C	0.395											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	20.01	20.01	20.01	20.01
l_p,int, Pedestrian LOS Score for Intersection	2.176	1.732	2.283	2.347
Crosswalk LOS	B	A	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	1167	1167	567	567
d_b, Bicycle Delay [s]	5.21	5.21	15.41	15.41
l_b,int, Bicycle LOS Score for Intersection	2.027	1.636	2.239	2.338
Bicycle LOS	B	A	B	B

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



875 West Orange Avenue

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Report File: G:\...\E PM.pdf

Scenario 1 Existing
11/23/2020

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Weber St (NS) at Orange Grove Ave (EW)	Signalized	HCM 6th Edition	SB Left	0.191	6.4	A
2	Lewis St (NS) at Orange Grove Ave (EW)	Two-way stop	HCM 6th Edition	SB Left	0.083	16.6	C
3	Hamilton Blvd (NS) at Orange Grove Ave (EW)	Signalized	HCM 6th Edition	NB Right	0.458	10.5	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: Weber St (NS) at Orange Grove Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	6.4
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.191

Intersection Setup

Name	Weber St			Weber St			Orange Grove Ave			Orange Grove Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	62.00	100.00	100.00	72.00	100.00	100.00
Speed [mph]	25.00			25.00			35.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			Yes		

Volumes

Name	Weber St			Weber St			Orange Grove Ave			Orange Grove Ave		
Base Volume Input [veh/h]	14	25	22	31	21	20	26	313	17	20	205	49
Base Volume Adjustment Factor	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	18	32	28	40	27	26	34	404	22	26	265	63
Peak Hour Factor	0.9440	0.9440	0.9440	0.9440	0.9440	0.9440	0.9440	0.9440	0.9440	0.9440	0.9440	0.9440
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	8	7	11	7	7	9	107	6	7	70	17
Total Analysis Volume [veh/h]	19	34	30	42	29	28	36	428	23	28	281	67
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	2.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-
Minimum Green [s]	0	7	0	0	7	0	0	7	0	0	7	0
Maximum Green [s]	0	30	0	0	30	0	0	30	0	0	30	0
Amber [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	0	22	0	0	22	0	0	38	0	0	38	0
Vehicle Extension [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall		No			No			No			No	
Maximum Recall		No			No			No			No	
Pedestrian Recall		No			No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	C	L	C	C	L	C	C
C, Cycle Length [s]	60	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	2.00	2.00	0.00	0.00	2.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	6	6	46	46	46	46	46	46
g / C, Green / Cycle	0.10	0.10	0.77	0.77	0.77	0.77	0.77	0.77
(v / s)_i Volume / Saturation Flow Rate	0.05	0.06	0.03	0.13	0.13	0.03	0.10	0.10
s, saturation flow rate [veh/h]	1724	1697	1049	1800	1768	954	1800	1683
c, Capacity [veh/h]	239	248	861	1387	1363	787	1387	1297
d1, Uniform Delay [s]	25.79	26.01	2.68	1.80	1.81	2.81	1.75	1.75
k, delay calibration	0.11	0.11	0.50	0.50	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.86	1.04	0.09	0.25	0.26	0.08	0.19	0.21
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.35	0.40	0.04	0.16	0.16	0.04	0.13	0.13
d, Delay for Lane Group [s/veh]	26.65	27.05	2.77	2.06	2.07	2.90	1.94	1.96
Lane Group LOS	C	C	A	A	A	A	A	A
Critical Lane Group	No	Yes	No	No	Yes	No	No	No
50th-Percentile Queue Length [veh/ln]	1.14	1.38	0.09	0.28	0.28	0.07	0.21	0.21
50th-Percentile Queue Length [ft/ln]	28.53	34.39	2.20	6.97	6.93	1.83	5.27	5.19
95th-Percentile Queue Length [veh/ln]	2.05	2.48	0.16	0.50	0.50	0.13	0.38	0.37
95th-Percentile Queue Length [ft/ln]	51.36	61.90	3.96	12.55	12.47	3.30	9.49	9.34

Movement, Approach, & Intersection Results

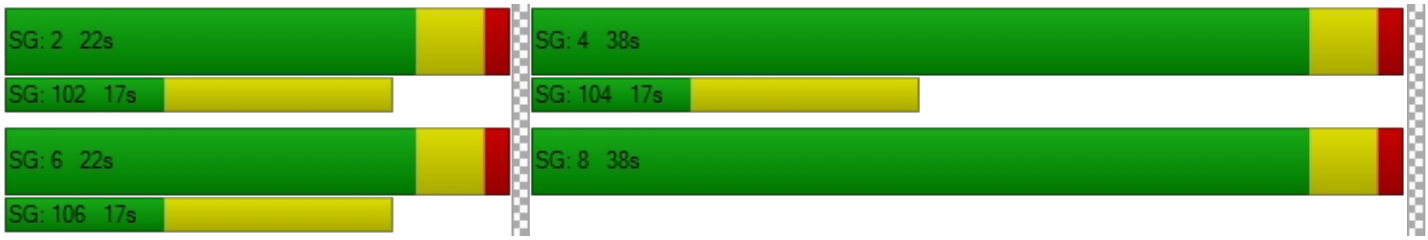
d_M, Delay for Movement [s/veh]	26.65	26.65	26.65	27.05	27.05	27.05	2.77	2.06	2.07	2.90	1.95	1.96
Movement LOS	C	C	C	C	C	C	A	A	A	A	A	A
d_A, Approach Delay [s/veh]	26.65			27.05			2.11			2.02		
Approach LOS	C			C			A			A		
d_I, Intersection Delay [s/veh]	6.39											
Intersection LOS	A											
Intersection V/C	0.191											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	20.01	20.01	20.01
l_p,int, Pedestrian LOS Score for Intersection	0.000	1.839	2.490	2.536
Crosswalk LOS	F	A	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	600	600	1133	1133
d_b, Bicycle Delay [s]	14.70	14.70	5.63	5.63
l_b,int, Bicycle LOS Score for Intersection	1.697	1.723	1.961	1.870
Bicycle LOS	A	A	A	A

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 2: Lewis St (NS) at Orange Grove Ave (EW)

Control Type:	Two-way stop	Delay (sec / veh):	16.6
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.083

Intersection Setup

Name	Lewis St		Orange Grove Ave		Orange Grove Ave	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		25.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		Yes		No	

Volumes

Name	Lewis St		Orange Grove Ave		Orange Grove Ave	
Base Volume Input [veh/h]	20	13	25	353	281	46
Base Volume Adjustment Factor	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	26	17	32	456	363	59
Peak Hour Factor	0.9130	0.9130	0.9130	0.9130	0.9130	0.9130
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	7	5	9	125	99	16
Total Analysis Volume [veh/h]	28	19	35	499	398	65
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane	No		
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.08	0.02	0.03	0.00	0.00	0.00
d_M, Delay for Movement [s/veh]	16.62	10.62	8.35	0.00	0.00	0.00
Movement LOS	C	B	A	A	A	A
95th-Percentile Queue Length [veh/ln]	0.36	0.36	0.09	0.04	0.00	0.00
95th-Percentile Queue Length [ft/ln]	8.94	8.94	2.23	1.11	0.00	0.00
d_A, Approach Delay [s/veh]	14.19		0.55		0.00	
Approach LOS	B		A		A	
d_I, Intersection Delay [s/veh]	0.92					
Intersection LOS	C					

Intersection Level Of Service Report
Intersection 3: Hamilton Blvd (NS) at Orange Grove Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	10.5
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.458

Intersection Setup

Name	Hamilton Blvd			Hamilton Blvd			Orange Grove Ave			Orange Grove Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	218.00	100.00	100.00	143.00	100.00	100.00
Speed [mph]	15.00			35.00			35.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Hamilton Blvd			Hamilton Blvd			Orange Grove Ave			Orange Grove Ave		
Base Volume Input [veh/h]	70	12	130	9	5	2	0	333	52	174	286	13
Base Volume Adjustment Factor	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	90	16	168	12	6	3	0	430	67	225	370	17
Peak Hour Factor	0.8870	0.8870	0.8870	0.8870	0.8870	0.8870	0.8870	0.8870	0.8870	0.8870	0.8870	0.8870
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	25	5	47	3	2	1	0	121	19	63	104	5
Total Analysis Volume [veh/h]	101	18	189	14	7	3	0	485	76	254	417	19
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	2.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-
Minimum Green [s]	0	7	0	0	7	0	0	7	0	0	7	0
Maximum Green [s]	0	30	0	0	30	0	0	30	0	0	30	0
Amber [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	0	39	0	0	39	0	0	21	0	0	21	0
Vehicle Extension [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall		No			No			No			No	
Maximum Recall		No			No			No			No	
Pedestrian Recall		No			No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	R	C	L	C	L	C
C, Cycle Length [s]	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	0.00	2.00	2.00	0.00	2.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	10	10	10	42	42	42	42
g / C, Green / Cycle	0.16	0.16	0.16	0.70	0.70	0.70	0.70
(v / s)_i Volume / Saturation Flow Rate	0.08	0.12	0.03	0.00	0.32	0.29	0.24
s, saturation flow rate [veh/h]	1472	1530	927	968	1758	862	1786
c, Capacity [veh/h]	353	251	247	664	1235	566	1255
d1, Uniform Delay [s]	22.77	23.93	21.40	0.00	3.91	9.92	3.52
k, delay calibration	0.11	0.11	0.11	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.56	4.50	0.17	0.00	1.21	2.56	0.76
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.34	0.75	0.10	0.00	0.45	0.45	0.35
d, Delay for Lane Group [s/veh]	23.33	28.42	21.57	0.00	5.11	12.48	4.28
Lane Group LOS	C	C	C	A	A	B	A
Critical Lane Group	No	Yes	No	No	Yes	No	No
50th-Percentile Queue Length [veh/ln]	1.57	2.84	0.28	0.00	1.93	2.18	1.33
50th-Percentile Queue Length [ft/ln]	39.33	71.12	6.88	0.00	48.31	54.46	33.21
95th-Percentile Queue Length [veh/ln]	2.83	5.12	0.50	0.00	3.48	3.92	2.39
95th-Percentile Queue Length [ft/ln]	70.79	128.02	12.38	0.00	86.95	98.03	59.77

Movement, Approach, & Intersection Results

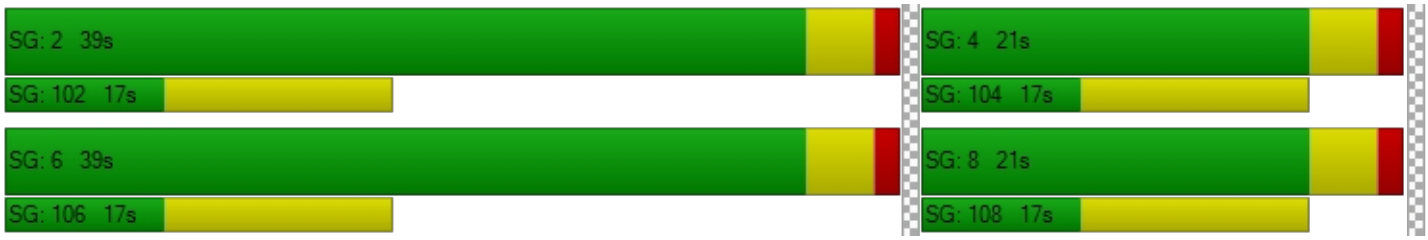
d_M, Delay for Movement [s/veh]	23.33	23.33	28.42	21.57	21.57	21.57	0.00	5.11	5.11	12.48	4.28	4.28
Movement LOS	C	C	C	C	C	C	A	A	A	B	A	A
d_A, Approach Delay [s/veh]	26.46			21.57			5.11			7.30		
Approach LOS	C			C			A			A		
d_I, Intersection Delay [s/veh]	10.47											
Intersection LOS	B											
Intersection V/C	0.458											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	20.01	20.01	20.01	20.01
l_p,int, Pedestrian LOS Score for Intersection	2.384	1.727	2.472	2.460
Crosswalk LOS	B	A	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	1167	1167	567	567
d_b, Bicycle Delay [s]	5.21	5.21	15.41	15.41
l_b,int, Bicycle LOS Score for Intersection	2.068	1.599	2.485	2.698
Bicycle LOS	B	A	B	B

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



OPENING YEAR (2023) WITHOUT PROJECT

875 West Orange Avenue

Vistro File: G:\...\AM.vistro
Report File: G:\...\OY AM.pdf

Scenario 2 Opening Year (2023) Without Project
11/23/2020

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Weber St (NS) at Orange Grove Ave (EW)	Signalized	HCM 6th Edition	SB Right	0.226	7.1	A
2	Lewis St (NS) at Orange Grove Ave (EW)	Two-way stop	HCM 6th Edition	SB Left	0.163	16.6	C
3	Hamilton Blvd (NS) at Orange Grove Ave (EW)	Signalized	HCM 6th Edition	NB Right	0.420	11.0	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: Weber St (NS) at Orange Grove Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	7.1
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.226

Intersection Setup

Name	Weber St			Weber St			Orange Grove Ave			Orange Grove Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	62.00	100.00	100.00	72.00	100.00	100.00
Speed [mph]	25.00			25.00			35.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			Yes		

Volumes

Name	Weber St			Weber St			Orange Grove Ave			Orange Grove Ave		
Base Volume Input [veh/h]	11	7	9	19	12	26	8	120	7	16	180	15
Base Volume Adjustment Factor	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	23	15	19	40	25	55	17	255	15	34	384	32
Peak Hour Factor	0.8740	0.8740	0.8740	0.8740	0.8740	0.8740	0.8740	0.8740	0.8740	0.8740	0.8740	0.8740
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	7	4	5	11	7	16	5	73	4	10	110	9
Total Analysis Volume [veh/h]	26	17	22	46	29	63	19	292	17	39	439	37
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	2.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-
Minimum Green [s]	0	7	0	0	7	0	0	7	0	0	7	0
Maximum Green [s]	0	30	0	0	30	0	0	30	0	0	30	0
Amber [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	0	22	0	0	22	0	0	38	0	0	38	0
Vehicle Extension [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall		No			No			No			No	
Maximum Recall		No			No			No			No	
Pedestrian Recall		No			No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	C	L	C	C	L	C	C
C, Cycle Length [s]	60	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	2.00	2.00	0.00	0.00	2.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	6	6	46	46	46	46	46	46
g / C, Green / Cycle	0.11	0.11	0.76	0.76	0.76	0.76	0.76	0.76
(v / s)_i Volume / Saturation Flow Rate	0.04	0.08	0.02	0.09	0.09	0.04	0.13	0.13
s, saturation flow rate [veh/h]	1687	1651	933	1800	1766	1087	1800	1751
c, Capacity [veh/h]	265	257	757	1367	1341	879	1367	1330
d1, Uniform Delay [s]	24.88	26.02	3.08	1.90	1.90	2.84	2.00	2.00
k, delay calibration	0.11	0.11	0.50	0.50	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.48	1.74	0.06	0.17	0.17	0.10	0.28	0.29
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.25	0.54	0.03	0.11	0.11	0.04	0.18	0.18
d, Delay for Lane Group [s/veh]	25.36	27.76	3.15	2.07	2.07	2.94	2.28	2.30
Lane Group LOS	C	C	A	A	A	A	A	A
Critical Lane Group	No	Yes	No	No	No	No	No	Yes
50th-Percentile Queue Length [veh/ln]	0.86	1.96	0.05	0.21	0.21	0.10	0.35	0.35
50th-Percentile Queue Length [ft/ln]	21.57	49.00	1.37	5.34	5.32	2.51	8.78	8.67
95th-Percentile Queue Length [veh/ln]	1.55	3.53	0.10	0.38	0.38	0.18	0.63	0.62
95th-Percentile Queue Length [ft/ln]	38.82	88.19	2.47	9.62	9.58	4.52	15.80	15.61

Movement, Approach, & Intersection Results

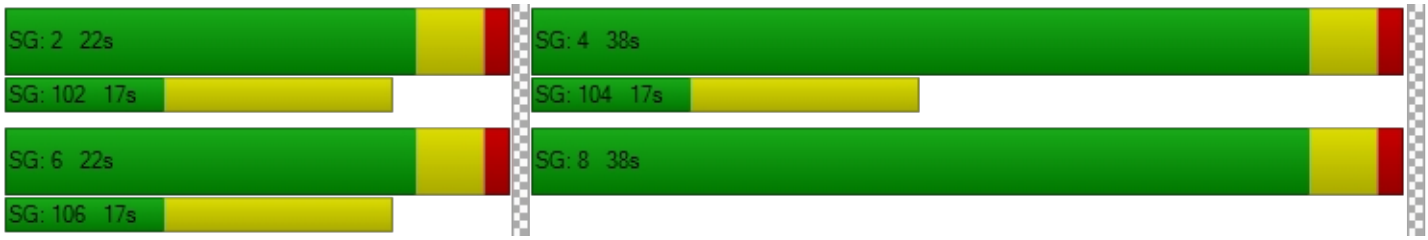
d_M, Delay for Movement [s/veh]	25.36	25.36	25.36	27.76	27.76	27.76	3.15	2.07	2.07	2.94	2.29	2.30
Movement LOS	C	C	C	C	C	C	A	A	A	A	A	A
d_A, Approach Delay [s/veh]	25.36			27.76			2.13			2.34		
Approach LOS	C			C			A			A		
d_I, Intersection Delay [s/veh]	7.06											
Intersection LOS	A											
Intersection V/C	0.226											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	20.01	20.01	20.01
l_p,int, Pedestrian LOS Score for Intersection	0.000	1.805	2.509	2.542
Crosswalk LOS	F	A	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	600	600	1133	1133
d_b, Bicycle Delay [s]	14.70	14.70	5.63	5.63
l_b,int, Bicycle LOS Score for Intersection	1.667	1.787	1.830	1.984
Bicycle LOS	A	A	A	A

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 2: Lewis St (NS) at Orange Grove Ave (EW)

Control Type:	Two-way stop	Delay (sec / veh):	16.6
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.163

Intersection Setup

Name	Lewis St		Orange Grove Ave		Orange Grove Ave	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		25.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		Yes		No	

Volumes

Name	Lewis St		Orange Grove Ave		Orange Grove Ave	
Base Volume Input [veh/h]	25	13	12	154	177	3
Base Volume Adjustment Factor	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.06	1.06	1.06	1.06	1.06	1.06
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	53	28	25	329	377	6
Peak Hour Factor	0.8670	0.8670	0.8670	0.8670	0.8670	0.8670
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	15	8	7	95	109	2
Total Analysis Volume [veh/h]	61	32	29	379	435	7
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane	No		
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.16	0.04	0.03	0.00	0.00	0.00
d_M, Delay for Movement [s/veh]	16.61	11.56	8.27	0.00	0.00	0.00
Movement LOS	C	B	A	A	A	A
95th-Percentile Queue Length [veh/ln]	0.75	0.75	0.07	0.03	0.00	0.00
95th-Percentile Queue Length [ft/ln]	18.84	18.84	1.70	0.85	0.00	0.00
d_A, Approach Delay [s/veh]	14.87		0.59		0.00	
Approach LOS	B		A		A	
d_I, Intersection Delay [s/veh]	1.72					
Intersection LOS	C					

Intersection Level Of Service Report

Intersection 3: Hamilton Blvd (NS) at Orange Grove Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	11.0
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.420

Intersection Setup

Name	Hamilton Blvd			Hamilton Blvd			Orange Grove Ave			Orange Grove Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	218.00	100.00	100.00	143.00	100.00	100.00
Speed [mph]	15.00			35.00			35.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Hamilton Blvd			Hamilton Blvd			Orange Grove Ave			Orange Grove Ave		
Base Volume Input [veh/h]	20	7	107	9	9	4	1	162	32	59	163	1
Base Volume Adjustment Factor	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	42	15	228	19	19	8	2	346	68	126	348	2
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	11	4	60	5	5	2	1	91	18	33	92	1
Total Analysis Volume [veh/h]	44	16	240	20	20	8	2	364	72	133	366	2
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	2.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-
Minimum Green [s]	0	7	0	0	7	0	0	7	0	0	7	0
Maximum Green [s]	0	30	0	0	30	0	0	30	0	0	30	0
Amber [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	0	39	0	0	39	0	0	21	0	0	21	0
Vehicle Extension [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall		No			No			No			No	
Maximum Recall		No			No			No			No	
Pedestrian Recall		No			No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	R	C	L	C	L	C
C, Cycle Length [s]	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	0.00	2.00	2.00	0.00	2.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	12	12	12	40	40	40	40
g / C, Green / Cycle	0.20	0.20	0.20	0.67	0.67	0.67	0.67
(v / s)_i Volume / Saturation Flow Rate	0.04	0.16	0.03	0.00	0.25	0.14	0.20
s, saturation flow rate [veh/h]	1552	1530	1561	1030	1749	968	1798
c, Capacity [veh/h]	410	302	393	672	1171	614	1204
d1, Uniform Delay [s]	20.05	22.98	19.92	6.47	4.37	8.36	4.12
k, delay calibration	0.11	0.11	0.11	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.16	4.77	0.14	0.01	0.91	0.81	0.66
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.15	0.80	0.12	0.00	0.37	0.22	0.31
d, Delay for Lane Group [s/veh]	20.21	27.75	20.06	6.48	5.28	9.17	4.78
Lane Group LOS	C	C	C	A	A	A	A
Critical Lane Group	No	Yes	No	No	Yes	No	No
50th-Percentile Queue Length [veh/ln]	0.71	3.59	0.52	0.01	1.68	0.92	1.32
50th-Percentile Queue Length [ft/ln]	17.86	89.74	13.09	0.27	41.96	22.90	33.03
95th-Percentile Queue Length [veh/ln]	1.29	6.46	0.94	0.02	3.02	1.65	2.38
95th-Percentile Queue Length [ft/ln]	32.15	161.53	23.56	0.48	75.53	41.22	59.45

Movement, Approach, & Intersection Results

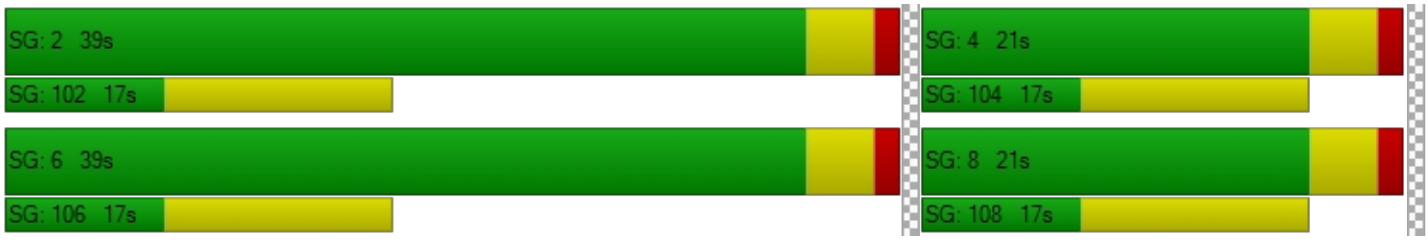
d_M, Delay for Movement [s/veh]	20.21	20.21	27.75	20.06	20.06	20.06	6.48	5.28	5.28	9.17	4.78	4.78
Movement LOS	C	C	C	C	C	C	A	A	A	A	A	A
d_A, Approach Delay [s/veh]	26.24			20.06			5.28			5.94		
Approach LOS	C			C			A			A		
d_I, Intersection Delay [s/veh]	10.98											
Intersection LOS	B											
Intersection V/C	0.420											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	20.01	20.01	20.01	20.01
l_p,int, Pedestrian LOS Score for Intersection	2.192	1.734	2.305	2.373
Crosswalk LOS	B	A	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	1167	1167	567	567
d_b, Bicycle Delay [s]	5.21	5.21	15.41	15.41
l_b,int, Bicycle LOS Score for Intersection	2.055	1.639	2.282	2.386
Bicycle LOS	B	A	B	B

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



875 West Orange Avenue

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Scenario 2 Opening Year (2023) Without Project
11/23/2020

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Weber St (NS) at Orange Grove Ave (EW)	Signalized	HCM 6th Edition	SB Left	0.202	6.5	A
2	Lewis St (NS) at Orange Grove Ave (EW)	Two-way stop	HCM 6th Edition	SB Left	0.098	17.6	C
3	Hamilton Blvd (NS) at Orange Grove Ave (EW)	Signalized	HCM 6th Edition	NB Right	0.485	11.2	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: Weber St (NS) at Orange Grove Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	6.5
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.202

Intersection Setup

Name	Weber St			Weber St			Orange Grove Ave			Orange Grove Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	62.00	100.00	100.00	72.00	100.00	100.00
Speed [mph]	25.00			25.00			35.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			Yes		

Volumes

Name	Weber St			Weber St			Orange Grove Ave			Orange Grove Ave		
Base Volume Input [veh/h]	14	25	22	31	21	20	26	313	17	20	205	49
Base Volume Adjustment Factor	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	19	34	30	42	29	28	36	428	23	28	281	67
Peak Hour Factor	0.9440	0.9440	0.9440	0.9440	0.9440	0.9440	0.9440	0.9440	0.9440	0.9440	0.9440	0.9440
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	9	8	11	8	7	10	113	6	7	74	18
Total Analysis Volume [veh/h]	20	36	32	44	31	30	38	453	24	30	298	71
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	2.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-
Minimum Green [s]	0	7	0	0	7	0	0	7	0	0	7	0
Maximum Green [s]	0	30	0	0	30	0	0	30	0	0	30	0
Amber [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	0	22	0	0	22	0	0	38	0	0	38	0
Vehicle Extension [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall		No			No			No			No	
Maximum Recall		No			No			No			No	
Pedestrian Recall		No			No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	C	L	C	C	L	C	C
C, Cycle Length [s]	60	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	2.00	2.00	0.00	0.00	2.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	6	6	46	46	46	46	46	46
g / C, Green / Cycle	0.10	0.10	0.77	0.77	0.77	0.77	0.77	0.77
(v / s)_i Volume / Saturation Flow Rate	0.05	0.06	0.04	0.13	0.13	0.03	0.10	0.11
s, saturation flow rate [veh/h]	1727	1699	1029	1800	1768	932	1800	1683
c, Capacity [veh/h]	243	252	843	1384	1359	766	1384	1294
d1, Uniform Delay [s]	25.75	25.99	2.76	1.85	1.85	2.91	1.79	1.80
k, delay calibration	0.11	0.11	0.50	0.50	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.91	1.10	0.10	0.27	0.28	0.10	0.21	0.23
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.36	0.42	0.05	0.17	0.17	0.04	0.14	0.14
d, Delay for Lane Group [s/veh]	26.65	27.09	2.87	2.13	2.13	3.00	2.00	2.02
Lane Group LOS	C	C	A	A	A	A	A	A
Critical Lane Group	No	Yes	No	No	Yes	No	No	No
50th-Percentile Queue Length [veh/ln]	1.21	1.46	0.10	0.31	0.31	0.08	0.23	0.23
50th-Percentile Queue Length [ft/ln]	30.27	36.53	2.41	7.70	7.64	2.04	5.83	5.72
95th-Percentile Queue Length [veh/ln]	2.18	2.63	0.17	0.55	0.55	0.15	0.42	0.41
95th-Percentile Queue Length [ft/ln]	54.48	65.76	4.33	13.86	13.76	3.68	10.49	10.30

Movement, Approach, & Intersection Results

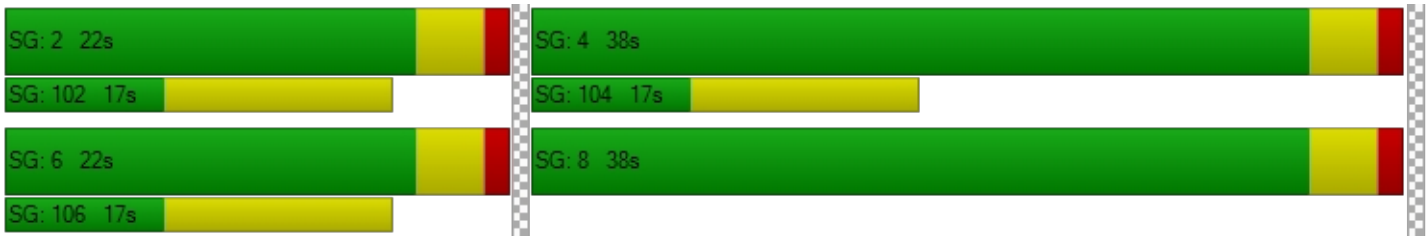
d_M, Delay for Movement [s/veh]	26.65	26.65	26.65	27.09	27.09	27.09	2.87	2.13	2.13	3.00	2.01	2.02
Movement LOS	C	C	C	C	C	C	A	A	A	A	A	A
d_A, Approach Delay [s/veh]	26.65			27.09			2.18			2.09		
Approach LOS	C			C			A			A		
d_I, Intersection Delay [s/veh]	6.46											
Intersection LOS	A											
Intersection V/C	0.202											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	20.01	20.01	20.01
l_p,int, Pedestrian LOS Score for Intersection	0.000	1.848	2.502	2.551
Crosswalk LOS	F	A	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	600	600	1133	1133
d_b, Bicycle Delay [s]	14.70	14.70	5.63	5.63
l_b,int, Bicycle LOS Score for Intersection	1.705	1.733	1.984	1.889
Bicycle LOS	A	A	A	A

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 2: Lewis St (NS) at Orange Grove Ave (EW)

Control Type:	Two-way stop	Delay (sec / veh):	17.6
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.098

Intersection Setup

Name	Lewis St		Orange Grove Ave		Orange Grove Ave	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		25.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		Yes		No	

Volumes

Name	Lewis St		Orange Grove Ave		Orange Grove Ave	
Base Volume Input [veh/h]	20	13	25	353	281	46
Base Volume Adjustment Factor	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.06	1.06	1.06	1.06	1.06	1.06
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	28	18	34	483	385	63
Peak Hour Factor	0.9130	0.9130	0.9130	0.9130	0.9130	0.9130
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	8	5	9	132	105	17
Total Analysis Volume [veh/h]	31	20	37	529	422	69
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane	No		
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.10	0.03	0.03	0.01	0.00	0.00
d_M, Delay for Movement [s/veh]	17.64	10.98	8.44	0.00	0.00	0.00
Movement LOS	C	B	A	A	A	A
95th-Percentile Queue Length [veh/ln]	0.42	0.42	0.10	0.05	0.00	0.00
95th-Percentile Queue Length [ft/ln]	10.56	10.56	2.43	1.21	0.00	0.00
d_A, Approach Delay [s/veh]	15.03		0.55		0.00	
Approach LOS	C		A		A	
d_I, Intersection Delay [s/veh]	0.97					
Intersection LOS	C					

Intersection Level Of Service Report
Intersection 3: Hamilton Blvd (NS) at Orange Grove Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	11.2
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.485

Intersection Setup

Name	Hamilton Blvd			Hamilton Blvd			Orange Grove Ave			Orange Grove Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	218.00	100.00	100.00	143.00	100.00	100.00
Speed [mph]	15.00			35.00			35.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Hamilton Blvd			Hamilton Blvd			Orange Grove Ave			Orange Grove Ave		
Base Volume Input [veh/h]	70	12	130	9	5	2	0	333	52	174	286	13
Base Volume Adjustment Factor	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	95	17	178	13	6	3	0	456	71	239	392	18
Peak Hour Factor	0.8870	0.8870	0.8870	0.8870	0.8870	0.8870	0.8870	0.8870	0.8870	0.8870	0.8870	0.8870
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	27	5	50	4	2	1	0	129	20	67	110	5
Total Analysis Volume [veh/h]	107	19	201	15	7	3	0	514	80	269	442	20
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	2.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-
Minimum Green [s]	0	7	0	0	7	0	0	7	0	0	7	0
Maximum Green [s]	0	30	0	0	30	0	0	30	0	0	30	0
Amber [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	0	39	0	0	39	0	0	21	0	0	21	0
Vehicle Extension [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall		No			No			No			No	
Maximum Recall		No			No			No			No	
Pedestrian Recall		No			No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	R	C	L	C	L	C
C, Cycle Length [s]	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	0.00	2.00	2.00	0.00	2.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	10	10	10	42	42	42	42
g / C, Green / Cycle	0.17	0.17	0.17	0.69	0.69	0.69	0.69
(v / s)_i Volume / Saturation Flow Rate	0.08	0.13	0.03	0.00	0.34	0.32	0.26
s, saturation flow rate [veh/h]	1517	1530	972	945	1758	836	1786
c, Capacity [veh/h]	375	266	265	623	1218	522	1238
d1, Uniform Delay [s]	22.28	23.61	20.94	0.00	4.28	11.92	3.83
k, delay calibration	0.11	0.11	0.11	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.52	4.32	0.15	0.00	1.40	3.60	0.86
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.34	0.75	0.09	0.00	0.49	0.52	0.37
d, Delay for Lane Group [s/veh]	22.80	27.93	21.09	0.00	5.68	15.52	4.69
Lane Group LOS	C	C	C	A	A	B	A
Critical Lane Group	No	Yes	No	No	Yes	No	No
50th-Percentile Queue Length [veh/ln]	1.64	3.00	0.28	0.00	2.26	2.71	1.54
50th-Percentile Queue Length [ft/ln]	41.08	75.06	7.06	0.00	56.52	67.84	38.47
95th-Percentile Queue Length [veh/ln]	2.96	5.40	0.51	0.00	4.07	4.88	2.77
95th-Percentile Queue Length [ft/ln]	73.94	135.11	12.71	0.00	101.74	122.11	69.25

Movement, Approach, & Intersection Results

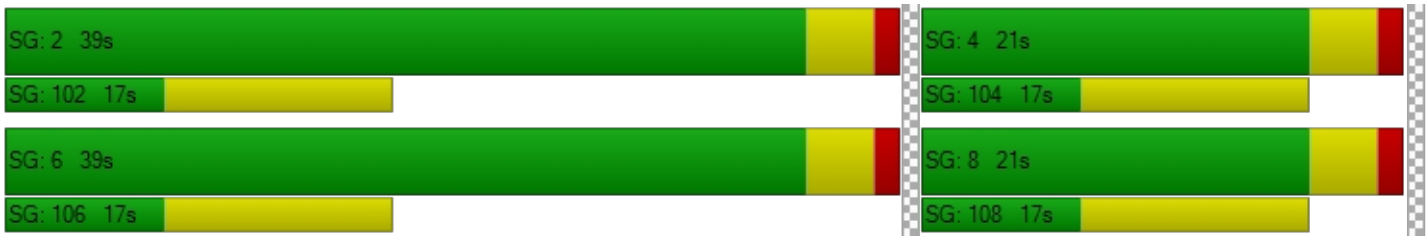
d_M, Delay for Movement [s/veh]	22.80	22.80	27.93	21.09	21.09	21.09	0.00	5.68	5.68	15.52	4.69	4.69
Movement LOS	C	C	C	C	C	C	A	A	A	B	A	A
d_A, Approach Delay [s/veh]	25.95			21.09			5.68			8.68		
Approach LOS	C			C			A			A		
d_I, Intersection Delay [s/veh]	11.17											
Intersection LOS	B											
Intersection V/C	0.485											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	20.01	20.01	20.01	20.01
l_p,int, Pedestrian LOS Score for Intersection	2.411	1.729	2.504	2.493
Crosswalk LOS	B	A	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	1167	1167	567	567
d_b, Bicycle Delay [s]	5.21	5.21	15.41	15.41
l_b,int, Bicycle LOS Score for Intersection	2.099	1.601	2.540	2.766
Bicycle LOS	B	A	B	C

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



OPENING YEAR (2023) WITH PROJECT

875 West Orange Avenue

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Scenario 3 Opening Year (2023) With Project
11/23/2020

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Weber St (NS) at Orange Grove Ave (EW)	Signalized	HCM 6th Edition	SB Right	0.227	7.0	A
2	Lewis St (NS) at Orange Grove Ave (EW)	Two-way stop	HCM 6th Edition	SB Left	0.166	16.9	C
3	Hamilton Blvd (NS) at Orange Grove Ave (EW)	Signalized	HCM 6th Edition	NB Right	0.426	11.0	B
4	Project West Dwy (NS) at Orange Grove Ave (EW)	Two-way stop	HCM 6th Edition	SB Left	0.011	15.5	C
5	Project East Dwy (NS) at Orange Grove Ave (EW)	Two-way stop	HCM 6th Edition	SB Left	0.014	15.5	C

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: Weber St (NS) at Orange Grove Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	7.0
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.227

Intersection Setup

Name	Weber St			Weber St			Orange Grove Ave			Orange Grove Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	62.00	100.00	100.00	72.00	100.00	100.00
Speed [mph]	25.00			25.00			35.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			Yes		

Volumes

Name	Weber St			Weber St			Orange Grove Ave			Orange Grove Ave		
Base Volume Input [veh/h]	11	7	9	19	12	26	8	120	7	16	180	15
Base Volume Adjustment Factor	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	1	0	0	0	0	2	0	4	5	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	23	15	20	40	25	55	17	257	15	38	389	32
Peak Hour Factor	0.8740	0.8740	0.8740	0.8740	0.8740	0.8740	0.8740	0.8740	0.8740	0.8740	0.8740	0.8740
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	7	4	6	11	7	16	5	74	4	11	111	9
Total Analysis Volume [veh/h]	26	17	23	46	29	63	19	294	17	43	445	37
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	2.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-
Minimum Green [s]	0	7	0	0	7	0	0	7	0	0	7	0
Maximum Green [s]	0	30	0	0	30	0	0	30	0	0	30	0
Amber [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	0	22	0	0	22	0	0	38	0	0	38	0
Vehicle Extension [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall		No			No			No			No	
Maximum Recall		No			No			No			No	
Pedestrian Recall		No			No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	C	L	C	C	L	C	C
C, Cycle Length [s]	60	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	2.00	2.00	0.00	0.00	2.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	6	6	46	46	46	46	46	46
g / C, Green / Cycle	0.11	0.11	0.76	0.76	0.76	0.76	0.76	0.76
(v / s)_i Volume / Saturation Flow Rate	0.04	0.08	0.02	0.09	0.09	0.04	0.14	0.14
s, saturation flow rate [veh/h]	1687	1652	928	1800	1766	1085	1800	1752
c, Capacity [veh/h]	264	257	753	1367	1341	877	1367	1331
d1, Uniform Delay [s]	24.90	26.02	3.09	1.90	1.90	2.86	2.01	2.01
k, delay calibration	0.11	0.11	0.50	0.50	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.49	1.74	0.06	0.17	0.17	0.11	0.29	0.29
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.25	0.54	0.03	0.11	0.12	0.05	0.18	0.18
d, Delay for Lane Group [s/veh]	25.38	27.76	3.16	2.07	2.08	2.96	2.29	2.30
Lane Group LOS	C	C	A	A	A	A	A	A
Critical Lane Group	No	Yes	No	No	No	No	No	Yes
50th-Percentile Queue Length [veh/ln]	0.88	1.96	0.06	0.22	0.21	0.11	0.36	0.35
50th-Percentile Queue Length [ft/ln]	21.92	48.99	1.38	5.38	5.36	2.78	8.90	8.80
95th-Percentile Queue Length [veh/ln]	1.58	3.53	0.10	0.39	0.39	0.20	0.64	0.63
95th-Percentile Queue Length [ft/ln]	39.45	88.18	2.48	9.68	9.64	5.01	16.03	15.83

Movement, Approach, & Intersection Results

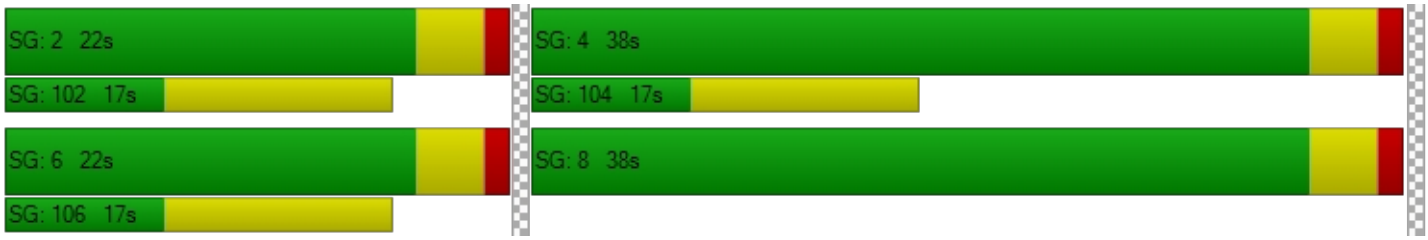
d_M, Delay for Movement [s/veh]	25.38	25.38	25.38	27.76	27.76	27.76	3.16	2.07	2.08	2.96	2.30	2.30
Movement LOS	C	C	C	C	C	C	A	A	A	A	A	A
d_A, Approach Delay [s/veh]	25.38			27.76			2.14			2.35		
Approach LOS	C			C			A			A		
d_I, Intersection Delay [s/veh]	7.03											
Intersection LOS	A											
Intersection V/C	0.227											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	20.01	20.01	20.01
l_p,int, Pedestrian LOS Score for Intersection	0.000	1.805	2.511	2.545
Crosswalk LOS	F	A	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	600	600	1133	1133
d_b, Bicycle Delay [s]	14.70	14.70	5.63	5.63
l_b,int, Bicycle LOS Score for Intersection	1.669	1.787	1.832	1.993
Bicycle LOS	A	A	A	A

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 2: Lewis St (NS) at Orange Grove Ave (EW)

Control Type:	Two-way stop	Delay (sec / veh):	16.9
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.166

Intersection Setup

Name	Lewis St		Orange Grove Ave		Orange Grove Ave	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		25.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		Yes		No	

Volumes

Name	Lewis St		Orange Grove Ave		Orange Grove Ave	
Base Volume Input [veh/h]	25	13	12	154	177	3
Base Volume Adjustment Factor	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.06	1.06	1.06	1.06	1.06	1.06
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	3	9	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	53	28	25	332	386	6
Peak Hour Factor	0.8670	0.8670	0.8670	0.8670	0.8670	0.8670
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	15	8	7	96	111	2
Total Analysis Volume [veh/h]	61	32	29	383	445	7
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane	No		
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.17	0.04	0.03	0.00	0.00	0.00
d_M, Delay for Movement [s/veh]	16.85	11.67	8.30	0.00	0.00	0.00
Movement LOS	C	B	A	A	A	A
95th-Percentile Queue Length [veh/ln]	0.77	0.77	0.07	0.03	0.00	0.00
95th-Percentile Queue Length [ft/ln]	19.20	19.20	1.71	0.86	0.00	0.00
d_A, Approach Delay [s/veh]	15.07		0.58		0.00	
Approach LOS	C		A		A	
d_I, Intersection Delay [s/veh]	1.72					
Intersection LOS	C					

Intersection Level Of Service Report
Intersection 3: Hamilton Blvd (NS) at Orange Grove Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	11.0
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.426

Intersection Setup

Name	Hamilton Blvd			Hamilton Blvd			Orange Grove Ave			Orange Grove Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	218.00	100.00	100.00	143.00	100.00	100.00
Speed [mph]	15.00			35.00			35.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Hamilton Blvd			Hamilton Blvd			Orange Grove Ave			Orange Grove Ave		
Base Volume Input [veh/h]	20	7	107	9	9	4	1	162	32	59	163	1
Base Volume Adjustment Factor	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	1	0	0	0	0	0	0	5	4	0	2	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	43	15	228	19	19	8	2	351	72	126	350	2
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	11	4	60	5	5	2	1	92	19	33	92	1
Total Analysis Volume [veh/h]	45	16	240	20	20	8	2	369	76	133	368	2
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	2.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-
Minimum Green [s]	0	7	0	0	7	0	0	7	0	0	7	0
Maximum Green [s]	0	30	0	0	30	0	0	30	0	0	30	0
Amber [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	0	39	0	0	39	0	0	21	0	0	21	0
Vehicle Extension [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall		No			No			No			No	
Maximum Recall		No			No			No			No	
Pedestrian Recall		No			No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	R	C	L	C	L	C
C, Cycle Length [s]	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	0.00	2.00	2.00	0.00	2.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	12	12	12	40	40	40	40
g / C, Green / Cycle	0.20	0.20	0.20	0.67	0.67	0.67	0.67
(v / s)_i Volume / Saturation Flow Rate	0.04	0.16	0.03	0.00	0.25	0.14	0.21
s, saturation flow rate [veh/h]	1565	1530	1557	1028	1747	960	1798
c, Capacity [veh/h]	413	302	392	671	1170	606	1204
d1, Uniform Delay [s]	20.06	22.98	19.92	6.49	4.40	8.49	4.13
k, delay calibration	0.11	0.11	0.11	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.16	4.76	0.14	0.01	0.94	0.83	0.66
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.15	0.80	0.12	0.00	0.38	0.22	0.31
d, Delay for Lane Group [s/veh]	20.23	27.74	20.06	6.50	5.34	9.32	4.79
Lane Group LOS	C	C	C	A	A	A	A
Critical Lane Group	No	Yes	No	No	Yes	No	No
50th-Percentile Queue Length [veh/ln]	0.73	3.59	0.52	0.01	1.73	0.93	1.33
50th-Percentile Queue Length [ft/ln]	18.17	89.72	13.09	0.27	43.19	23.20	33.27
95th-Percentile Queue Length [veh/ln]	1.31	6.46	0.94	0.02	3.11	1.67	2.40
95th-Percentile Queue Length [ft/ln]	32.70	161.50	23.56	0.48	77.75	41.77	59.88

Movement, Approach, & Intersection Results

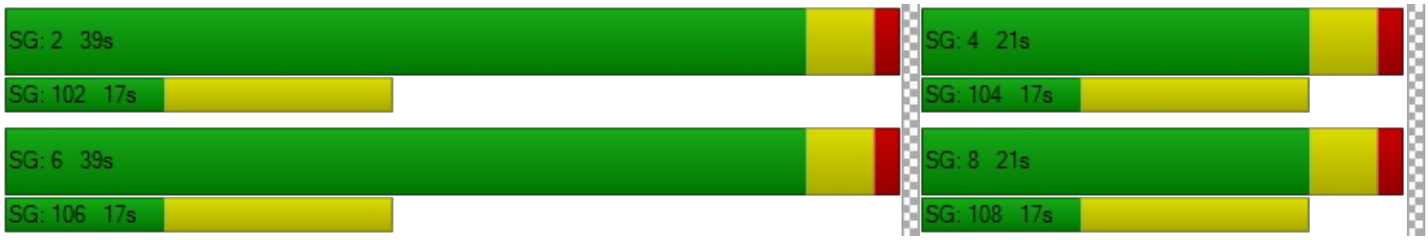
d_M, Delay for Movement [s/veh]	20.23	20.23	27.74	20.06	20.06	20.06	6.50	5.34	5.34	9.32	4.79	4.79
Movement LOS	C	C	C	C	C	C	A	A	A	A	A	A
d_A, Approach Delay [s/veh]	26.22			20.06			5.35			5.99		
Approach LOS	C			C			A			A		
d_I, Intersection Delay [s/veh]	10.97											
Intersection LOS	B											
Intersection V/C	0.426											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	20.01	20.01	20.01	20.01
l_p,int, Pedestrian LOS Score for Intersection	2.193	1.734	2.311	2.375
Crosswalk LOS	B	A	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	1167	1167	567	567
d_b, Bicycle Delay [s]	5.21	5.21	15.41	15.41
l_b,int, Bicycle LOS Score for Intersection	2.056	1.639	2.297	2.390
Bicycle LOS	B	A	B	B

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report

Intersection 4: Project West Dwy (NS) at Orange Grove Ave (EW)

Control Type:	Two-way stop	Delay (sec / veh):	15.5
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.011

Intersection Setup

Name	Project West Dwy		Orange Grove Ave		Orange Grove Ave	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		35.00		35.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	Project West Dwy		Orange Grove Ave		Orange Grove Ave	
Base Volume Input [veh/h]	0	0	0	179	180	0
Base Volume Adjustment Factor	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.06	1.06	1.06	1.06	1.06	1.06
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	4	4	1	2	5	1
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	4	4	1	384	389	1
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	1	0	101	102	0
Total Analysis Volume [veh/h]	4	4	1	404	409	1
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane	No		
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.01	0.00	0.00	0.00	0.00
d_M, Delay for Movement [s/veh]	15.45	10.71	8.11	0.00	0.00	0.00
Movement LOS	C	B	A	A	A	A
95th-Percentile Queue Length [veh/ln]	0.05	0.05	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	1.35	1.35	0.06	0.06	0.00	0.00
d_A, Approach Delay [s/veh]	13.08		0.02		0.00	
Approach LOS	B		A		A	
d_I, Intersection Delay [s/veh]	0.14					
Intersection LOS	C					

Intersection Level Of Service Report

Intersection 5: Project East Dwy (NS) at Orange Grove Ave (EW)

Control Type:	Two-way stop	Delay (sec / veh):	15.5
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.014

Intersection Setup

Name	Project East Dwy		Orange Grove Ave		Orange Grove Ave	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		35.00		35.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	Project East Dwy		Orange Grove Ave		Orange Grove Ave	
Base Volume Input [veh/h]	0	0	0	179	180	0
Base Volume Adjustment Factor	2.0120	2.0120	2.0120	2.0120	2.0120	2.0120
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.06	1.06	1.06	1.06	1.06	1.06
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	5	5	2	4	1	2
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	5	5	2	386	385	2
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	1	1	102	101	1
Total Analysis Volume [veh/h]	5	5	2	406	405	2
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane	No		
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.01	0.00	0.00	0.00	0.00
d_M, Delay for Movement [s/veh]	15.51	10.72	8.10	0.00	0.00	0.00
Movement LOS	C	B	A	A	A	A
95th-Percentile Queue Length [veh/ln]	0.07	0.07	0.01	0.01	0.00	0.00
95th-Percentile Queue Length [ft/ln]	1.69	1.69	0.13	0.13	0.00	0.00
d_A, Approach Delay [s/veh]	13.12		0.04		0.00	
Approach LOS	B		A		A	
d_I, Intersection Delay [s/veh]	0.18					
Intersection LOS	C					

875 West Orange Avenue

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Scenario 3 Opening Year (2023) With Project
11/23/2020

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Weber St (NS) at Orange Grove Ave (EW)	Signalized	HCM 6th Edition	SB Left	0.204	6.5	A
2	Lewis St (NS) at Orange Grove Ave (EW)	Two-way stop	HCM 6th Edition	SB Left	0.100	17.9	C
3	Hamilton Blvd (NS) at Orange Grove Ave (EW)	Signalized	HCM 6th Edition	NB Right	0.490	11.2	B
4	Project West Dwy (NS) at Orange Grove Ave (EW)	Two-way stop	HCM 6th Edition	SB Left	0.008	20.2	C
5	Project East Dwy (NS) at Orange Grove Ave (EW)	Two-way stop	HCM 6th Edition	SB Left	0.017	20.4	C

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: Weber St (NS) at Orange Grove Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	6.5
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.204

Intersection Setup

Name	Weber St			Weber St			Orange Grove Ave			Orange Grove Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	62.00	100.00	100.00	72.00	100.00	100.00
Speed [mph]	25.00			25.00			35.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	No			Yes			Yes			Yes		

Volumes

Name	Weber St			Weber St			Orange Grove Ave			Orange Grove Ave		
Base Volume Input [veh/h]	14	25	22	31	21	20	26	313	17	20	205	49
Base Volume Adjustment Factor	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	4	0	0	0	0	6	0	2	4	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	19	34	34	42	29	28	36	434	23	30	285	67
Peak Hour Factor	0.9440	0.9440	0.9440	0.9440	0.9440	0.9440	0.9440	0.9440	0.9440	0.9440	0.9440	0.9440
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	9	9	11	8	7	10	115	6	8	75	18
Total Analysis Volume [veh/h]	20	36	36	44	31	30	38	460	24	32	302	71
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	2.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-
Minimum Green [s]	0	7	0	0	7	0	0	7	0	0	7	0
Maximum Green [s]	0	30	0	0	30	0	0	30	0	0	30	0
Amber [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	0	22	0	0	22	0	0	38	0	0	38	0
Vehicle Extension [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall		No			No			No			No	
Maximum Recall		No			No			No			No	
Pedestrian Recall		No			No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	C	L	C	C	L	C	C
C, Cycle Length [s]	60	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	2.00	2.00	0.00	0.00	2.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	6	6	46	46	46	46	46	46
g / C, Green / Cycle	0.10	0.10	0.77	0.77	0.77	0.77	0.77	0.77
(v / s)_i Volume / Saturation Flow Rate	0.05	0.06	0.04	0.14	0.14	0.03	0.11	0.11
s, saturation flow rate [veh/h]	1725	1705	1025	1800	1769	926	1800	1684
c, Capacity [veh/h]	242	252	840	1384	1360	762	1384	1295
d1, Uniform Delay [s]	25.82	25.99	2.77	1.86	1.86	2.93	1.80	1.80
k, delay calibration	0.11	0.11	0.50	0.50	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.98	1.09	0.10	0.28	0.28	0.10	0.21	0.23
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.38	0.42	0.05	0.18	0.18	0.04	0.14	0.14
d, Delay for Lane Group [s/veh]	26.80	27.08	2.87	2.14	2.14	3.03	2.00	2.03
Lane Group LOS	C	C	A	A	A	A	A	A
Critical Lane Group	No	Yes	No	No	Yes	No	No	No
50th-Percentile Queue Length [veh/ln]	1.27	1.46	0.10	0.31	0.31	0.09	0.24	0.23
50th-Percentile Queue Length [ft/ln]	31.77	36.53	2.41	7.83	7.77	2.20	5.90	5.79
95th-Percentile Queue Length [veh/ln]	2.29	2.63	0.17	0.56	0.56	0.16	0.42	0.42
95th-Percentile Queue Length [ft/ln]	57.19	65.75	4.35	14.09	13.99	3.96	10.62	10.43

Movement, Approach, & Intersection Results

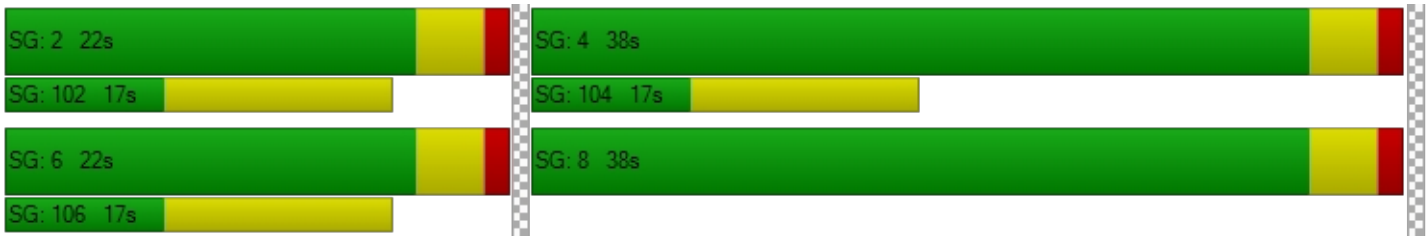
d_M, Delay for Movement [s/veh]	26.80	26.80	26.80	27.08	27.08	27.08	2.87	2.14	2.14	3.03	2.01	2.03
Movement LOS	C	C	C	C	C	C	A	A	A	A	A	A
d_A, Approach Delay [s/veh]	26.80			27.08			2.19			2.10		
Approach LOS	C			C			A			A		
d_I, Intersection Delay [s/veh]	6.50											
Intersection LOS	A											
Intersection V/C	0.204											

Other Modes

g_Walk,mi, Effective Walk Time [s]	0.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	0.00	20.01	20.01	20.01
l_p,int, Pedestrian LOS Score for Intersection	0.000	1.848	2.505	2.555
Crosswalk LOS	F	A	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	600	600	1133	1133
d_b, Bicycle Delay [s]	14.70	14.70	5.63	5.63
l_b,int, Bicycle LOS Score for Intersection	1.711	1.733	1.990	1.894
Bicycle LOS	A	A	A	A

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 2: Lewis St (NS) at Orange Grove Ave (EW)

Control Type:	Two-way stop	Delay (sec / veh):	17.9
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.100

Intersection Setup

Name	Lewis St		Orange Grove Ave		Orange Grove Ave	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		25.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		Yes		No	

Volumes

Name	Lewis St		Orange Grove Ave		Orange Grove Ave	
Base Volume Input [veh/h]	20	13	25	353	281	46
Base Volume Adjustment Factor	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.06	1.06	1.06	1.06	1.06	1.06
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	10	6	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	28	18	34	493	391	63
Peak Hour Factor	0.9130	0.9130	0.9130	0.9130	0.9130	0.9130
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	8	5	9	135	107	17
Total Analysis Volume [veh/h]	31	20	37	540	428	69
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane	No		
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.10	0.03	0.03	0.01	0.00	0.00
d_M, Delay for Movement [s/veh]	17.88	11.04	8.46	0.00	0.00	0.00
Movement LOS	C	B	A	A	A	A
95th-Percentile Queue Length [veh/ln]	0.43	0.43	0.10	0.05	0.00	0.00
95th-Percentile Queue Length [ft/ln]	10.73	10.73	2.44	1.22	0.00	0.00
d_A, Approach Delay [s/veh]	15.20		0.54		0.00	
Approach LOS	C		A		A	
d_I, Intersection Delay [s/veh]	0.97					
Intersection LOS	C					

Intersection Level Of Service Report
Intersection 3: Hamilton Blvd (NS) at Orange Grove Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	11.2
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.490

Intersection Setup

Name	Hamilton Blvd			Hamilton Blvd			Orange Grove Ave			Orange Grove Ave		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	1	0	0	1	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	218.00	100.00	100.00	143.00	100.00	100.00
Speed [mph]	15.00			35.00			35.00			35.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Hamilton Blvd			Hamilton Blvd			Orange Grove Ave			Orange Grove Ave		
Base Volume Input [veh/h]	70	12	130	9	5	2	0	333	52	174	286	13
Base Volume Adjustment Factor	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	4	0	0	0	0	0	0	4	2	0	6	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	99	17	178	13	6	3	0	460	73	239	398	18
Peak Hour Factor	0.8870	0.8870	0.8870	0.8870	0.8870	0.8870	0.8870	0.8870	0.8870	0.8870	0.8870	0.8870
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	28	5	50	4	2	1	0	130	21	67	112	5
Total Analysis Volume [veh/h]	112	19	201	15	7	3	0	519	82	269	449	20
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fully actuated
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	2.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-
Minimum Green [s]	0	7	0	0	7	0	0	7	0	0	7	0
Maximum Green [s]	0	30	0	0	30	0	0	30	0	0	30	0
Amber [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	0	39	0	0	39	0	0	21	0	0	21	0
Vehicle Extension [s]	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	7	0	0	7	0	0	7	0	0	7	0
Pedestrian Clearance [s]	0	10	0	0	10	0	0	10	0	0	10	0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall		No			No			No			No	
Maximum Recall		No			No			No			No	
Pedestrian Recall		No			No			No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	R	C	L	C	L	C
C, Cycle Length [s]	60	60	60	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	2.00	0.00	2.00	2.00	0.00	2.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	10	10	10	42	42	42	42
g / C, Green / Cycle	0.17	0.17	0.17	0.69	0.69	0.69	0.69
(v / s)_i Volume / Saturation Flow Rate	0.09	0.13	0.03	0.00	0.34	0.32	0.26
s, saturation flow rate [veh/h]	1505	1530	947	939	1758	831	1787
c, Capacity [veh/h]	373	267	261	617	1217	517	1237
d1, Uniform Delay [s]	22.38	23.60	20.94	0.00	4.32	12.11	3.85
k, delay calibration	0.11	0.11	0.11	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.56	4.30	0.16	0.00	1.43	3.71	0.88
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.35	0.75	0.10	0.00	0.49	0.52	0.38
d, Delay for Lane Group [s/veh]	22.94	27.89	21.10	0.00	5.75	15.82	4.74
Lane Group LOS	C	C	C	A	A	B	A
Critical Lane Group	No	Yes	No	No	Yes	No	No
50th-Percentile Queue Length [veh/ln]	1.72	3.00	0.28	0.00	2.31	2.75	1.57
50th-Percentile Queue Length [ft/ln]	42.94	75.01	7.06	0.00	57.71	68.82	39.36
95th-Percentile Queue Length [veh/ln]	3.09	5.40	0.51	0.00	4.15	4.95	2.83
95th-Percentile Queue Length [ft/ln]	77.28	135.01	12.71	0.00	103.87	123.87	70.84

Movement, Approach, & Intersection Results

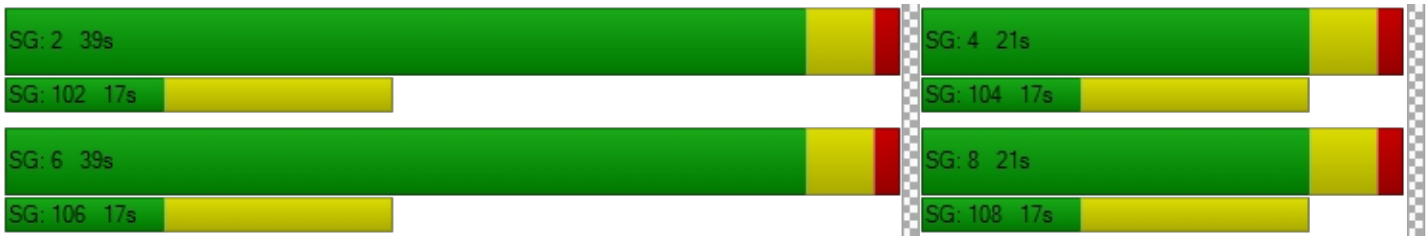
d_M, Delay for Movement [s/veh]	22.94	22.94	27.89	21.10	21.10	21.10	0.00	5.75	5.75	15.82	4.74	4.74
Movement LOS	C	C	C	C	C	C	A	A	A	B	A	A
d_A, Approach Delay [s/veh]	25.94			21.10			5.75			8.78		
Approach LOS	C			C			A			A		
d_I, Intersection Delay [s/veh]	11.24											
Intersection LOS	B											
Intersection V/C	0.490											

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	11.0	11.0	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	20.01	20.01	20.01	20.01
l_p,int, Pedestrian LOS Score for Intersection	2.412	1.729	2.519	2.498
Crosswalk LOS	B	A	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	1167	1167	567	567
d_b, Bicycle Delay [s]	5.21	5.21	15.41	15.41
l_b,int, Bicycle LOS Score for Intersection	2.107	1.601	2.551	2.777
Bicycle LOS	B	A	B	C

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report

Intersection 4: Project West Dwy (NS) at Orange Grove Ave (EW)

Control Type:	Two-way stop	Delay (sec / veh):	20.2
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.008

Intersection Setup

Name	Project West Dwy		Orange Grove Ave		Orange Grove Ave	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		35.00		35.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	Project West Dwy		Orange Grove Ave		Orange Grove Ave	
Base Volume Input [veh/h]	0	0	0	385	358	0
Base Volume Adjustment Factor	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.06	1.06	1.06	1.06	1.06	1.06
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	2	2	4	6	4	4
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	2	2	4	533	495	4
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	1	1	140	130	1
Total Analysis Volume [veh/h]	2	2	4	561	521	4
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane	No		
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.00	0.01	0.01	0.00
d_M, Delay for Movement [s/veh]	20.24	11.58	8.44	0.00	0.00	0.00
Movement LOS	C	B	A	A	A	A
95th-Percentile Queue Length [veh/ln]	0.04	0.04	0.01	0.01	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.91	0.91	0.29	0.29	0.00	0.00
d_A, Approach Delay [s/veh]	15.91		0.06		0.00	
Approach LOS	C		A		A	
d_I, Intersection Delay [s/veh]	0.09					
Intersection LOS	C					

Intersection Level Of Service Report

Intersection 5: Project East Dwy (NS) at Orange Grove Ave (EW)

Control Type:	Two-way stop	Delay (sec / veh):	20.4
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.017

Intersection Setup

Name	Project East Dwy		Orange Grove Ave		Orange Grove Ave	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		35.00		35.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name	Project East Dwy		Orange Grove Ave		Orange Grove Ave	
Base Volume Input [veh/h]	0	0	0	385	358	0
Base Volume Adjustment Factor	1.2920	1.2920	1.2920	1.2920	1.2920	1.2920
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.06	1.06	1.06	1.06	1.06	1.06
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	4	4	6	2	4	6
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	4	4	6	529	495	6
Peak Hour Factor	0.9500	0.9500	0.9500	0.9500	0.9500	0.9500
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	1	2	139	130	2
Total Analysis Volume [veh/h]	4	4	6	557	521	6
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane	No		
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.02	0.01	0.01	0.01	0.01	0.00
d_M, Delay for Movement [s/veh]	20.44	11.73	8.45	0.00	0.00	0.00
Movement LOS	C	B	A	A	A	A
95th-Percentile Queue Length [veh/ln]	0.07	0.07	0.02	0.02	0.00	0.00
95th-Percentile Queue Length [ft/ln]	1.84	1.84	0.43	0.43	0.00	0.00
d_A, Approach Delay [s/veh]	16.08		0.09		0.00	
Approach LOS	C		A		A	
d_I, Intersection Delay [s/veh]	0.16					
Intersection LOS	C					

APPENDIX E

INTERIM APPROVAL 21 – RECTANGULAR RAPID-FLASHING BEACONS AT CROSSWALKS

Interim Approval 21 – Rectangular Rapid-Flashing Beacons at Crosswalks

PDF Version, 606KB
You may need the Adobe® Reader® to view the PDFs on this page.

Memorandum

U.S. Department of Transportation
Federal Highway Administration

Subject:	**INFORMATION**: MUTCD – Interim Approval for Optional Use of Pedestrian-Actuated Rectangular Rapid-Flashing Beacons at Uncontrolled Marked Crosswalks (IA-21)	Date:	March 20, 2018
From:	Martin C. Knopp Associate Administrator for Operations	In Reply Refer To:	HOTO-1
To:	Federal Lands Highway Division Directors Division Administrators		

Purpose: The purpose of this memorandum is to issue an Interim Approval for the optional use of Rectangular Rapid-Flashing Beacons (RRFB) as pedestrian-actuated conspicuity enhancements for pedestrian and school crossing warning signs under certain limited conditions. Interim Approval allows interim use, pending official rulemaking, of a new traffic control device, a revision to the application or manner of use of an existing traffic control device, or a provision not specifically described in the *Manual on Uniform Traffic Control Devices for Streets and Highways* (MUTCD). State and local agencies must request and receive permission to use this new Interim Approval, designated IA-21, from the Federal Highway Administration (FHWA) in accordance with the provisions of Section 1A.10 of the MUTCD before they can use the RRFB, even if prior approval had been given for Interim Approval 11 (IA-11), now terminated. The issuance of this new Interim Approval does not reinstate IA-11 either in whole or in part.

Background: The Florida Department of Transportation has requested that the FHWA issue an Interim Approval to allow the use of RRFBs as pedestrian-actuated conspicuity enhancements to supplement standard pedestrian and school crossing warning signs at uncontrolled marked crosswalks. The RRFB does not meet the current standards for flashing warning beacons as contained in the 2009 edition of the MUTCD, Chapter 4L, which requires a warning beacon to be circular in shape and either 8 or 12 inches in diameter, to flash at a rate of approximately once per second, and to be located no less than 12 inches outside the nearest edge of the warning sign it supplements. The RRFB uses rectangular-shaped high-intensity light-emitting-diode (LED)-based indications, flashes rapidly in a combination wig-wag and simultaneous flash pattern, and may be mounted immediately adjacent to the crossing sign.

Research on the RRFB: The City of St. Petersburg, Florida, experimented with the RRFB at 18 pedestrian crosswalks across uncontrolled approaches and submitted its final report in 2008. In addition to "before" data, the city collected "after" data at intervals for one year at all 18 sites and for two years at the first two implemented sites. For the first two sites, the city collected data for overhead and ground-mounted pedestrian crossing signs supplemented with standard circular yellow flashing warning beacons, for comparison purposes, before the RRFBs were installed. The data showed

higher motorist yielding rates at crosswalks where the RRFBs had been installed in comparison to lower rates for standard warning beacons. The higher yielding rates were sustained even after two years of operation, and no identifiable negative effects were found. The St. Petersburg data also showed that drivers exhibit yielding behavior much farther in advance of crosswalks with RRFBs than with standard circular yellow flashing warning beacons.

In addition to the St. Petersburg locations, experimentation with RRFBs was also conducted at other uncontrolled marked crosswalks in Florida and other States. Data from locations other than St. Petersburg was limited, but did show results similar to those found in St. Petersburg.

The Texas Transportation Institute (TTI) conducted a Federally funded research project[1] that developed and tested a new flash pattern for the RRFB that was shown to be at least as effective as the flash pattern that was initially tested in St. Petersburg, Florida, and that showed that mounting the RRFB unit above the sign was at least as effective as mounting the RRFB unit below the sign. In this project, the results were generally favorable, however there was a wide range of yielding rates, with some as low as 19 percent. This broad range indicates that there might be certain factors or characteristics of locations at which the RRFB might not be effective.

A separate project[2] conducted by TTI examined data from multiple projects to determine various factors that influenced driver yielding rates at RRFB locations. In this project, the researchers found that intersection configuration, presence of a median refuge, crossing distance, approach to the crossing, and one-way vs. two-way traffic significantly affected the rate of driver yielding. Additional factors including posted speed limit, mounting of the beacons (overhead or roadside), and the type of crossing and sign—Pedestrian (W11-2) or School (S1-1) sign compared with the Trail Crossing (W11-15) sign—were also significant.

FHWA Evaluation of Results: The Office of Transportation Operations reviewed the available data in 2008 and considered the RRFB to be highly successful for the applications tested (uncontrolled marked crosswalks). The RRFB offers significant potential safety and cost benefits because it achieves high rates of compliance at a low relative cost in comparison to other more restrictive devices that provide comparable results, such as full midblock signalization or pedestrian hybrid beacons.

The FHWA granted interim approval status to the RRFB on July 16, 2008, and designated that action as Interim Approval 11 (IA-11).

The FHWA was later informed that the concept of the RRFB had been patented by a private company. Because patented traffic control devices are not allowed to be included in the MUTCD, are not allowed to be given interim approval status, and are not allowed to be a part of an official experiment, the FHWA terminated Interim Approval 11 on December 21, 2017.

The FHWA has confirmed that the patents on the RRFB device that was the subject of Interim Approval 11 have been expressly abandoned and the concept of the RRFB is now in the public domain. Because of this action, the RRFB is once again eligible for interim approval status and the FHWA is issuing this new Interim Approval for the RRFB.

Interim Approval 11 (IA-11) remains terminated. Agencies that previously had been approved to use RRFBs under IA-11 are not covered by this new Interim Approval to install new RRFBs. If agencies that had approval under IA-11 wish to continue to install new RRFBs, then they must submit a new request to the FHWA and agree to comply with the terms and conditions of IA-21.

This Interim Approval does not create a new mandate compelling installation of RRFBs, but will allow agencies to install this traffic control device, pending official MUTCD rulemaking, to provide a degree of enhanced pedestrian safety at uncontrolled marked crosswalks.

Conditions of Interim Approval: The FHWA will grant Interim Approval for the optional use of the RRFB as a pedestrian-actuated conspicuity enhancement to supplement standard pedestrian crossing or school crossing signs at uncontrolled marked crosswalks to any jurisdiction that submits a written request to the Office of Transportation Operations. A State may request Interim Approval for all jurisdictions in that State. Jurisdictions using RRFBs under this Interim Approval must agree to the following:

- Comply with the Technical Conditions detailed in this memorandum;
- Maintain an inventory list of all locations at which the RRFB is installed; and
- Comply with all the conditions as listed in Paragraph 18 of Section 1A.10 of the MUTCD.

In addition, any agency that receives this approval must acknowledge agreement with the following:

- That an agency will furnish its list of locations where implemented if requested by FHWA;
- That FHWA has the right to rescind this Interim Approval at any time; and
- That issuance of this Interim Approval does not guarantee that the provisions, either in whole or part, will be adopted into the MUTCD.

1. General Conditions:
    a. Each RRFB unit shall consist of two rapidly flashed rectangular-shaped yellow indications with an LED-array-based light source, and shall be designed, located, and operated in accordance with the detailed requirements specified below.
    b. The use of RRFBs is optional. However, if an agency opts to use an RRFB under this Interim Approval, the following design and operational requirements shall apply, and shall take precedence over any conflicting provisions of the MUTCD for the approach on which RRFBs are used:
2. Allowable Uses:
    a. An RRFB shall only be installed to function as a pedestrian-actuated conspicuity enhancement.
    b. An RRFB shall only be used to supplement a post-mounted W11-2 (Pedestrian), S1-1 (School), or W11-15 (Trail) crossing warning sign with a diagonal downward arrow (W16-7P) plaque, or an overhead-mounted W11-2, S1-1, or W11-15 crossing warning sign, located at or immediately adjacent to an uncontrolled marked crosswalk.
    c. Except for crosswalks across the approach to or egress from a roundabout, an RRFB shall not be used for crosswalks across approaches controlled by YIELD signs, STOP signs, traffic control signals, or pedestrian hybrid beacons.
    d. In the event sight distance approaching the crosswalk at which RRFBs are used is less than deemed necessary by the engineer, an additional RRFB may be installed on that approach in advance of the crosswalk, as a pedestrian-actuated conspicuity enhancement to supplement a W11-2 (Pedestrian), S1-1 (School), or W11-15 (Trail) crossing warning sign with an AHEAD (W16-9P) or distance (W16-2P or W16-2aP) plaque. If an additional RRFB is installed on the approach in advance of the crosswalk, it shall be supplemental to and not a replacement for the RRFBs at the crosswalk itself.
3. Sign/Beacon Assembly Locations:
    a. For any approach on which RRFBs are used to supplement post-mounted signs, at least two W11-2, S1-1, or W11-15 crossing warning signs (each with an RRFB unit and a W16-7P plaque) shall be installed at the crosswalk, one on the right-hand side of the roadway and one on the left-hand side of the roadway. On a divided highway, the left-hand side assembly should be installed on the median, if practical, rather than on the far left-hand side of the highway.
    b. An RRFB unit shall not be installed independent of the crossing warning signs for the approach that the RRFB faces. If the RRFB unit is supplementing a post-mounted sign, the RRFB unit shall be installed on the same support as the associated W11-2, S1-1, or W11-15 crossing warning sign and plaque. If the RRFB unit is supplementing an overhead-mounted sign, the RRFB unit shall be mounted directly below the bottom of the sign.
4. Beacon Dimensions and Placement in the Sign Assembly:
    a. Each RRFB shall consist of two rectangular-shaped yellow indications, each with an LED-array-based light source. The size of each RRFB indication shall be at least 5 inches wide by at least 2 inches high.
    b. The two RRFB indications for each RRFB unit shall be aligned horizontally, with the longer dimension horizontal and with a minimum space between the two indications of at least 7 inches, measured from the nearest edge of one indication to the nearest edge of the other indication.
    c. The outside edges of the RRFB indications, including any housings, shall not project beyond the outside edges of the W11-2, S1-1, or W11-15 sign that it supplements.
    d. As a specific exception to Paragraph 5 of Section 4L.01 of the 2009 MUTCD, the RRFB unit associated with a post-mounted sign and plaque may be located between and immediately adjacent to the bottom of the crossing warning sign and the top of the supplemental downward diagonal arrow plaque (or, in the case of a supplemental advance sign, the AHEAD or distance plaque) or within 12 inches above the crossing warning sign, rather than the recommended minimum of 12 inches above or below the sign assembly. (See the example photo that is shown below.)
5. Beacon Flashing Requirements:
    a. When actuated, the two yellow indications in each RRFB unit shall flash in a rapidly flashing sequence.
    b. As a specific exception to the requirements for the flash rate of beacons provided in Paragraph 3 of Section 4L.01, RRFBs shall use a much faster flash rate and shall provide 75 flashing sequences per minute. Except as provided in Condition 5f below, during each 800-millisecond flashing sequence, the left and right RRFB indications shall operate using the following sequence:

        The RRFB indication on the left-hand side shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 50 milliseconds.

        The RRFB indication on the right-hand side shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 50 milliseconds.

The RRFB indication on the left-hand side shall be illuminated for approximately 50 milliseconds.
Both RRFB indications shall be dark for approximately 50 milliseconds.

The RRFB indication on the right-hand side shall be illuminated for approximately 50 milliseconds.
Both RRFB indications shall be dark for approximately 50 milliseconds.

Both RRFB indications shall be illuminated for approximately 50 milliseconds.
Both RRFB indications shall be dark for approximately 50 milliseconds.

Both RRFB indications shall be illuminated for approximately 50 milliseconds.
Both RRFB indications shall be dark for approximately 250 milliseconds.

c. The flash rate of each individual RRFB indication, as applied over the full flashing sequence, shall not be between 5 and 30 flashes per second to avoid frequencies that might cause seizures.
d. The light intensity of the yellow indications during daytime conditions shall meet the minimum specifications for Class 1 yellow peak luminous intensity in the Society of Automotive Engineers (SAE) Standard J595 (Directional Flashing Optical Warning Devices for Authorized Emergency, Maintenance, and Service Vehicles) dated January 2005.
e. To minimize excessive glare during nighttime conditions, an automatic signal dimming device should be used to reduce the brilliance of the RRFB indications during nighttime conditions.
f. Existing RRFB units that use the flashing sequence that was specified in the Interim Approval 11 memorandum and a subsequent interpretation (the RRFB indication on the left-hand side emits two slow pulses of light after which the RRFB indication on the right-hand side emits four rapid pulses of light followed by one long pulse of light) should be reprogrammed to the flash pattern specified above in Condition 5b as part of a systematic upgrading process, such as when the units are serviced or when the existing signs are replaced.

6. Beacon Operation:
   a. The RRFB shall be normally dark, shall initiate operation only upon pedestrian actuation, and shall cease operation at a predetermined time after the pedestrian actuation or, with passive detection, after the pedestrian clears the crosswalk.
   b. All RRFB units associated with a given crosswalk (including those with an advance crossing sign, if used) shall, when actuated, simultaneously commence operation of their rapid-flashing indications and shall cease operation simultaneously.
   c. If pedestrian pushbutton detectors (rather than passive detection) are used to actuate the RRFB indications, a Push Button To Turn On Warning Lights (R10-25) sign shall be installed explaining the purpose and use of the pedestrian pushbutton detector.
   d. The duration of a predetermined period of operation of the RRFBs following each actuation should be based on the procedures provided in Section 4E.06 of the 2009 MUTCD for the timing of pedestrian clearance times for pedestrian signals.
   e. The predetermined flash period shall be immediately initiated each and every time that a pedestrian is detected either through passive detection or as a result of a pedestrian pressing a pushbutton detector, including when pedestrians are detected while the RRFBs are already flashing and when pedestrians are detected immediately after the RRFBs have ceased flashing.
   f. A small pilot light may be installed integral to the RRFB or pedestrian pushbutton detector to give confirmation that the RRFB is in operation.
7. Accessible Pedestrian Features:
   a. If a speech pushbutton information message is used in conjunction with an RRFB, a locator tone shall be provided.
   b. If a speech pushbutton information message is used in conjunction with an RRFB, the audible information device shall not use vibrotactile indications or percussive indications.
   c. If a speech pushbutton information message is used in conjunction with an RRFB, the message should say, "Yellow lights are flashing." The message should be spoken twice.

Any questions concerning this Interim Approval should be directed to Mr. Duane Thomas at duane.thomas@dot.gov.

Figure 1. Example of an RRFB dark (left) and illuminated during the flash period (center and right) mounted with W11-2 sign and W16-7P plaque at an uncontrolled marked crosswalk.

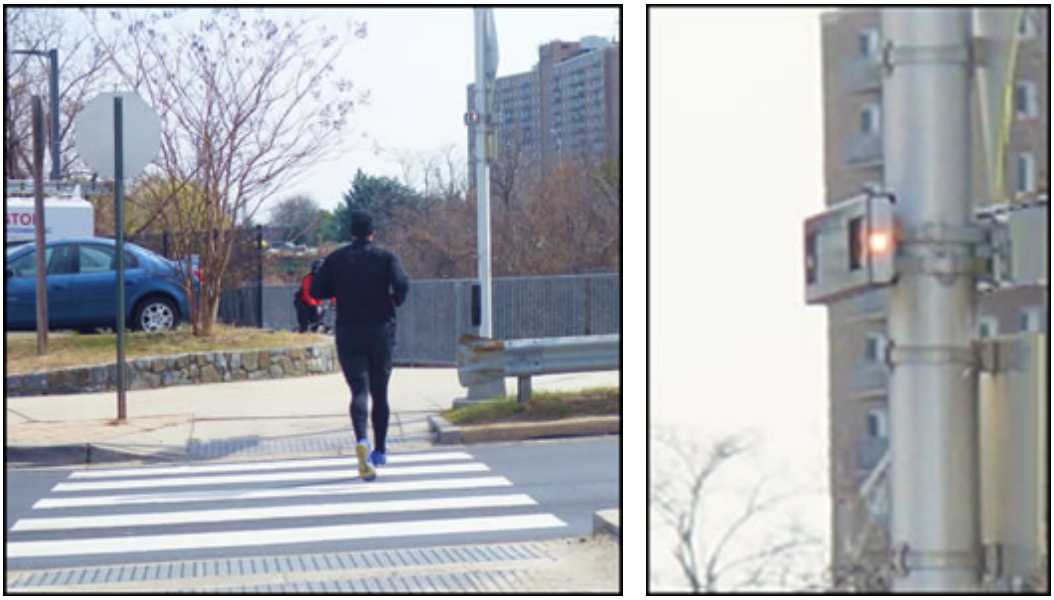


Figure 2. View of pilot light to pedestrian at shared-use path crossing with median refuge. Enlargement of pilot light at right.

Figure 3. Example of pedestrian pushbutton and R10-25 sign with pilot light for pedestrian actuation.

cc:
Associate Administrators
Chief Counsel
Chief Financial Officer
Directors of Field Services
Director of Technical Services

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1 Fitzpatrick, K., R. Avelar, M. Pratt, M. Brewer, J. Robertson, T. Lindheimer, and J. Miles. *Evaluation of Pedestrian Hybrid Beacons and Rapid Flashing Beacons*. Report No. FHWA-HRT-16-040, pp. 88-106. Texas Transportation Institute, College Station, Texas. July 2016. https://www.fhwa.dot.gov/publications/research/safety/16040/index.cfm [Return to Note 1]

2 Fitzpatrick, K., M. Brewer, R. Avelar, and T. Lindheimer. *Will You Stop for Me? Roadway Design and Traffic Control Device Influences on Drivers Yielding to Pedestrians in a Crosswalk with a Rectangular Rapid-Flashing Beacon*. Report No. TTI-CTS-0010. Texas A&M Transportation Institute, College Station, Texas. June 2016. https://static.tti.tamu.edu/tti.tamu.edu/documents/TTI-CTS-0010.pdf [Return to Note 2]

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