

# Live Oak Arcadia Townhomes Project

VTT No. 80294



Draft conceptual rendering - Not to scale

Prepared For:

**County of Los Angeles  
Department of Regional Planning**

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JULY 2, 2019

**LIVE OAK ARCADIA TOWNHOMES PROJECT  
VTT No. 80294**

**(DRAFT) INITIAL STUDY  
&  
MITIGATED NEGATIVE DECLARATION**

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*Lead Agency:*

**COUNTY OF LOS ANGELES  
DEPARTMENT OF REGIONAL PLANNING**  
320 West Temple Street  
Los Angeles, CA 90012  
Attn: Marie Pavlovic

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July 2, 2019



## TABLE OF CONTENTS

<b>ENVIRONMENTAL CHECKLIST FORM (DRAFT INITIAL STUDY)</b>	<b>3</b>
<b>ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED</b>	<b>6</b>
<b>PROJECT DESCRIPTION</b>	<b>7</b>
<b>EVALUATION OF ENVIRONMENTAL IMPACTS</b>	<b>15</b>
1. AESTHETICS	16
2. AGRICULTURE/FOREST	19
3. AIR QUALITY	21
4. BIOLOGICAL RESOURCES	26
5. CULTURAL RESOURCES	29
6. ENERGY	34
7. GEOLOGY AND SOILS	35
8. GREENHOUSE GAS EMISSIONS	38
9. HAZARDS AND HAZARDOUS MATERIALS	43
10. HYDROLOGY AND WATER QUALITY	48
11. LAND USE AND PLANNING	54
12. MINERAL RESOURCES	56
13. NOISE	58
14. POPULATION AND HOUSING	62
15. PUBLIC SERVICES	65
16. RECREATION	67
17. TRANSPORTATION	68
18. TRIBAL CULTURAL RESOURCES	70
19. UTILITIES AND SERVICE SYSTEMS	74
20. WILDFIRE	79
21. MANDATORY FINDINGS OF SIGNIFICANCE	81
<b>LIST OF FIGURES</b>	
Figure 1    Project Regional Location Map	8
Figure 2    Project Vicinity Map	9
Figure 3    Photos of the Project Site	10
Figure 4    Project Site Plan	12
Figure 5    Project Elevations	13
<b>LIST OF TABLES</b>	
Table 3-1    Construction Activity Maximum Daily Emissions	23
Table 3-2    Operational Maximum Daily Emissions	24
Table 3-3    LST and Project Emissions	24
Table 8-1    Greenhouse Gas Emissions	41
<b>APPENDICES</b>	
Appendix A    CalEEMod Output Data	
Appendix B    CNDDDB/CNPS Literature Search Results	
Appendix C    Phase I Cultural Resource Assessment	
Appendix D    Geotechnical Engineering Investigation	
Appendix E    Phase I Environmental Site Assessment	
Appendix F    Preliminary Hydrology & Hydraulics Report	
Appendix G    Noise Impact Analysis	
Appendix H    Traffic Analysis Memo	

# Environmental Checklist Form (Draft Initial Study)

## County of Los Angeles, Department of Regional Planning



**Project title:** Live Oak Arcadia Townhomes Project/Project Case No. RPPL2018000276 and Tentative Tract Map RPPL2018000275

**Lead agency name and address:** Los Angeles County, 320 West Temple Street, Los Angeles, CA 90012

**Contact Person and phone number:** Marie Pavlovic, Department of Regional Planning, 213-974-6433

**Project sponsor's name and address:** Live Oak 888, LLC 4804 Laurel Canyon Boulevard, Suite 742, Valley Village, CA 91607

**Project location:** 4343 and 4371 East Live Oak Avenue, Unincorporated Los Angeles County, CA 91006  
APN: 8511-018-012, -015 USGS Quad: El Monte

**Gross Acreage:** 3.62 acres

**General plan designation:** H 30 (Residential: - 0 to 30 du/ac)

**Community/Area wide Plan designation:** South Monrovia Islands Community / West San Gabriel Valley Planning Area

**Zoning:** R-3: Limited Multiple Residence, Minimum 5,000 sq. ft. lot size, minimum 1,452 sq. ft./unit or as otherwise limited by the General Plan

**Description of project:** The Project consists of closing a 56-space mobilehome park and constructing 86 townhome condominium units with associated amenities on approximately 3.62-acre site. The Project applicant requests a Vesting Tentative Tract Map, and a Mobile Home Permit from the County of Los Angeles in order to develop the proposed Project. The applicant has volunteered to set aside a total of five (5) units designated for moderate income level affordable housing. The project site is developed with a mobilehome park and accessory structures for storage, laundry, and shade totaling 19,922 square feet. The non-conforming use and structure review permit authorizing the continued operation of a 56-unit mobilehome park expired in 2000; therefore, the park is operating without a required land use permit. As of May 15, 2018, 53 units exist on-site and of 53 units, 23 were occupied. The Project entails closing the mobilehome park and demolishing an 862-square foot storage structure, and a 664-square foot laundry room structure. All mobilehome units would be towed from the site to be relocated or disposed of offsite. Sheds and metal awnings associated with individual mobilehome dwellings, which total approximately 1,587 square feet and 18,396 square feet, respectively, are anticipated to be removed whole or disassembled and removed by owners of those items while vacating the Project site property, unless such additions are turned over to the mobilehome park operator for demolition. Approximate earthwork quantities would be 121 cubic yards (cy) of cut, and 4,758 cy of fill, and 9,286 cy of over-excavation, requiring a net import of 4,637 cy of soil. Transport hauling of import soil would require approximately 422 truckloads (assuming a capacity of about 11 cy per dump truck) arriving at the site, and 422 return trips. A source site for the fill soil has been identified approximately 1.6 miles to the east of the Project site on Arrow Highway at the intersection of Avenida Barbosa. Soil import hauling during grading activities would consist of traveling the 1.6 miles between the source site and the Project site along Arrow Highway, which becomes E. Live Oak Avenue approximately 0.95 miles east of the

Project site, and continuing on to the Project site driveway access from E. Live Oak Avenue. Additionally, soil preparation would require over excavation of approximately 9,286 cy and recompaction of 9,286 cy of onsite soils. Refer to Project Description below for additional Project details.

Surrounding land uses and setting: Properties adjacent to the Project site are developed with single-family residential land uses to the north and east; commercial uses to the south and west; and multi-family residences to the west. A multi-family residential development is under construction to the south.<sup>1</sup> The larger surrounding area is similarly characterized by urban development with residential and commercial uses. Refer to Project Description, Existing Conditions below for additional details.

**Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code § 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significance of impacts to tribal cultural resources, procedures regarding confidentiality, etc.?**

California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code § 21080.3.1. Tribal consultations were held May 30, 2018; January 29, 2019; January 31; February 1, 2019, March 18, 2019, March 19, 2019, March 26, 2019, and April 5, 2019 and concluded without agreement on April 11, 2019.

**Other public agencies whose approval may be required (e.g., permits, financing approval, or participation agreement):**

<i>Public Agency</i> <u>Los Angeles County</u>	<i>Approval Required</i> <u>Vesting Tentative Tract Map, Grading and Building Permits, Approval of Mobilehome Park Closure Impact Report, and Hauling Route approval.</u>
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**Major projects in the area:**

<i>Project/Case No.</i>	<i>Description and Status</i>
<u>TR068400-(5)</u>	<u>Santa Anita Village – Proposed development of 318 residential condominium units with associated amenities, and closure of a mobilehome park at 4241 East Live Oak Avenue. The approved project has not begun construction.</u>
<u>TR074149</u>	<u>The Mayflower &amp; Live Oak residential project – Construction of fifteen (15) three-story townhome condominium units on a 0.80-acre site located at 4332 E. Live Oak Avenue, replacing an abandoned gas station, one-story retail building and a self-service car wash. Under construction.</u>

**Reviewing Agencies:** [See CEQA Appendix B to help determine which agencies should review your project]

<i>Responsible Agencies</i>	<i>Special Reviewing Agencies</i>	<i>Regional Significance</i>
<input checked="" type="checkbox"/> None	<input type="checkbox"/> None	<input type="checkbox"/> None
Regional Water Quality Control Board:	<input type="checkbox"/> Santa Monica Mountains Conservancy	<input type="checkbox"/> SCAG Criteria
<input type="checkbox"/> Los Angeles Region	<input type="checkbox"/> National Parks	<input checked="" type="checkbox"/> Air Quality
<input type="checkbox"/> Lahontan Region	<input type="checkbox"/> National Forest	<input type="checkbox"/> Water Resources
<input type="checkbox"/> Coastal Commission	<input type="checkbox"/> Edwards Air Force Base	<input checked="" type="checkbox"/> Santa Monica Mtns. Area
<input type="checkbox"/> Army Corps of Engineers	<input type="checkbox"/> Department of Conservation	<input checked="" type="checkbox"/> Monrovia Unified School District
<input type="checkbox"/> LAFCO	<input checked="" type="checkbox"/> Native American Heritage Commission	
<input checked="" type="checkbox"/> DTSC		

<sup>1</sup> Los Angeles County Department of Regional Planning, <http://planning.lacounty.gov/case/view/tr074149>, accessed November 8, 2017.

*Trustee Agencies*

- None
- State Dept. of Fish and Wildlife
- State Dept. of Parks and Recreation
- State Lands Commission
- University of California (Natural Land and Water Reserves System)

*County Reviewing Agencies*

- DPW
- Fire Department
  - Planning Division
  - Land Development Unit
  - Health Hazmat
- Sanitation District
- Public Health/Environmental Health Division: Land Use Program (OWTS), Drinking Water Program (Private Wells), Toxics Epidemiology Program (Noise)
- Sheriff Department
- Parks and Recreation
- Subdivision Committee

*Other*

- City of Monrovia:
- City of Irwindale
- City of Arcadia



**ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:**

The environmental factors checked below would be potentially affected by this project.

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Aesthetics                    | <input type="checkbox"/> Greenhouse Gas Emissions    | <input type="checkbox"/> Public Services                               |
| <input type="checkbox"/> Agriculture/Forestry          | <input type="checkbox"/> Hazards/Hazardous Materials | <input type="checkbox"/> Recreation                                    |
| <input type="checkbox"/> Air Quality                   | <input type="checkbox"/> Hydrology/Water Quality     | <input type="checkbox"/> Transportation                                |
| <input type="checkbox"/> Biological Resources          | <input type="checkbox"/> Land Use/Planning           | <input checked="" type="checkbox"/> Tribal Cultural Resources          |
| <input checked="" type="checkbox"/> Cultural Resources | <input type="checkbox"/> Mineral Resources           | <input checked="" type="checkbox"/> Utilities/Services                 |
| <input type="checkbox"/> Energy                        | <input checked="" type="checkbox"/> Noise            | <input type="checkbox"/> Wildfire                                      |
| <input type="checkbox"/> Geology/Soils                 | <input type="checkbox"/> Population/Housing          | <input checked="" type="checkbox"/> Mandatory Findings of Significance |

DETERMINATION: (To be completed by the Lead Department.)  
On the basis of this initial evaluation:

- I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
- I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
- I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.
- I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

\_\_\_\_\_  
Signature (Prepared by)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature (Approved by)

\_\_\_\_\_  
Date

## PROJECT DESCRIPTION:

### EXISTING CONDITIONS

#### Project Location and Existing Setting

The Project site is located at 4343 and 4371 East Live Oak Avenue in an unincorporated portion of the County of Los Angeles, near the intersection of East Live Oak Avenue and Mayflower Avenue, southeast of the City of Arcadia, as shown by **Figure 1, Project Regional Location Map**. The Project site includes two contiguous parcels identified by County of Los Angeles Assessor Parcel Numbers (APNs) 8511-018-012 and -015, which total 3.62 acres. APN 8511-018-012 (Parcel 1) consists of 2.94 acres, and is currently developed as a mobilehome park, and APN 8511-018-015 (Parcel 2) is approximately 0.68 acres and is currently vacant. The existing mobilehome park contains 56 spaces. Upon notification of the impending closure of the mobilehome park, residents began vacating the site. As of May 2018, a total of 23 of the units remained occupied according to the mobilehome park's Closure Impact Report (CIR). The mobilehome park development also includes a swimming pool, an 862-square foot storage facility, and a 664-square foot laundry room structure. In addition to the mobilehome park, Parcel 1 also includes two roadside billboards along Live Oak Avenue. The mobilehome park was established in 1956. The non-conforming use and structure review permit expired in 2000; therefore, the park is operating without a valid land use permit as is required under the Planning and Zoning Code. Parcel 2 consists of the remaining 0.67-acre portion of the site, which is currently undeveloped, although it was previously developed with a restaurant for a period from the 1950's to the 1980's.<sup>2</sup> There is no public access to Parcel 2, which is bounded by concrete block walls along the perimeter to the west, north, and east, that separate that portion of the Project site from the adjacent mobilehome park and an adjacent residential development to the east. A chain link fence along the southern boundary of the Parcel 2 prevents public access from Live Oak Avenue.

#### Surrounding Land Uses

The Project site is relatively flat with little topographic variation, as is the surrounding vicinity. As shown by **Figure 2, Project Vicinity Map**, the Project site is located in a generally urbanized area, and is surrounded by existing development. Adjacent land uses include single-family homes to the north and east, consisting of a development of two-story residences to the east, and one- and two-story residences to the north. Existing commercial uses are located adjacent to the southwest of the Project site to the southwest, and a mini-mart is located on the corner of Live Oak Avenue and Mayflower Avenue near the southwest boundary of the site. Additional surrounding uses include a commercial auto repair facility and multi-family residences located west of Mayflower Avenue. Currently, a property located immediately south of the Project site, on the opposite side of Live Oak Avenue, is under construction and being redeveloped with a three-story, 15-unit multifamily residential complex, on a site previously developed with a commercial car wash and fueling station. A solid waste disposal site that ceased operations December 31, 1961<sup>3</sup> was located at 4414 East Live Oak Avenue, approximately 325 feet southeast of the Project site, and is currently occupied by a storage facility. A future development of a 318-unit townhome and condominium complex (Santa Anita Village) is planned to be located on the opposite side of Mayflower Avenue west of the Project site. **Figure 3, Photos of the Project Site**, depicts recent views of the project site as seen from public roadways.

#### Regional and Local Access

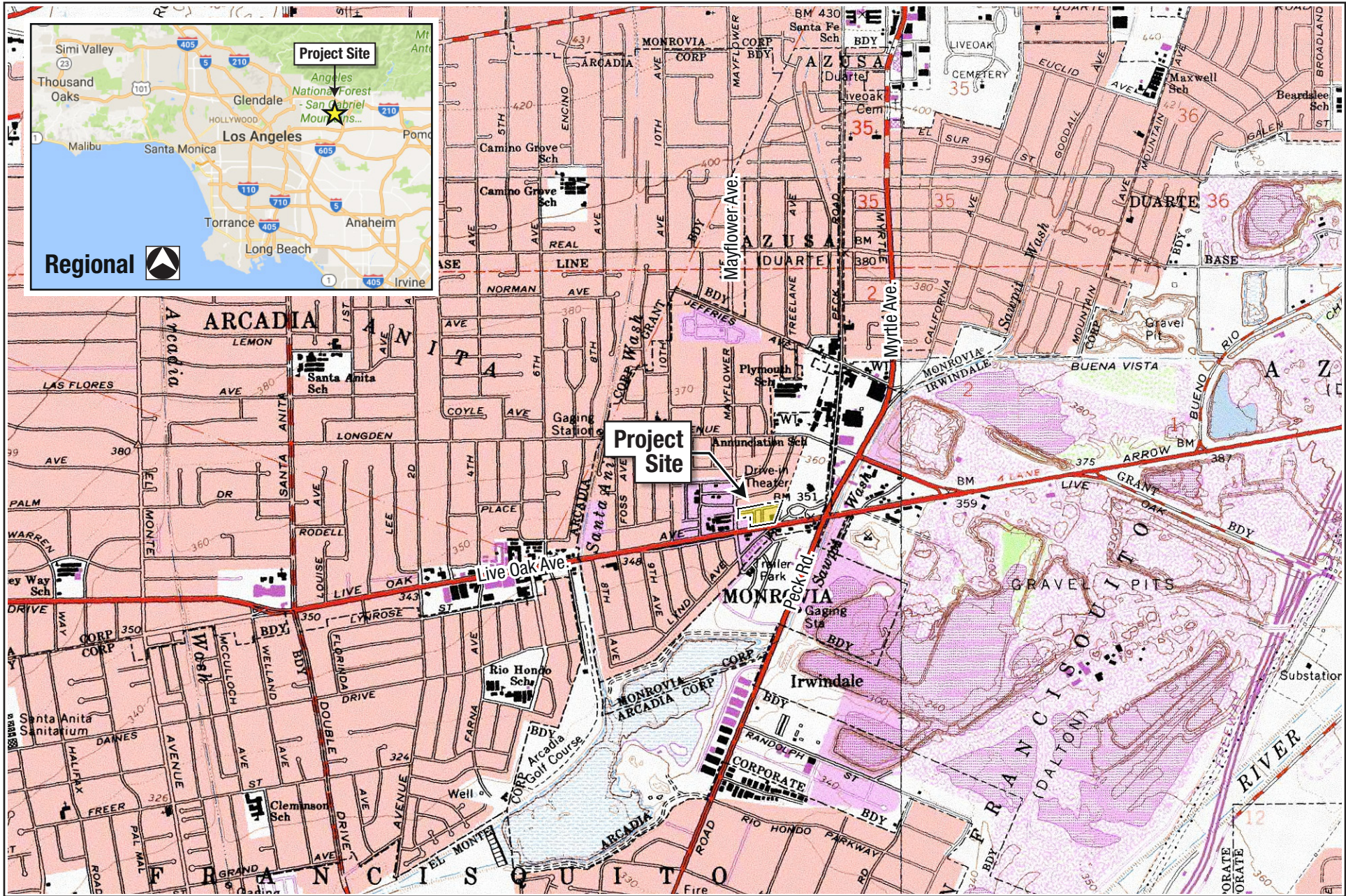
Regional access to the Project vicinity is generally provided by Interstate 210 (the Foothill Freeway), located north of the Project site, or the Interstate 605 Freeway, located east of the site. Three driveways provide access to the existing mobilehome park, including two from Live Oak Avenue, and one from Mayflower Avenue.

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<sup>2</sup> The Reynolds Group, Phase I Environmental Site Assessment Report Mobilehome Park and Undeveloped Parcel 4343 and 4372 E. Live Oak Avenue, March 24, 2017.

<sup>3</sup> California Department of Resources Recycling and Recovery (CalRecycle), SWIS Facility Detail Valley Park Corp Dump (19-AA-0779), accessed at <https://www2.calrecycle.ca.gov/swfacilities/Directory/19-AA-0779> on November 30, 2018.





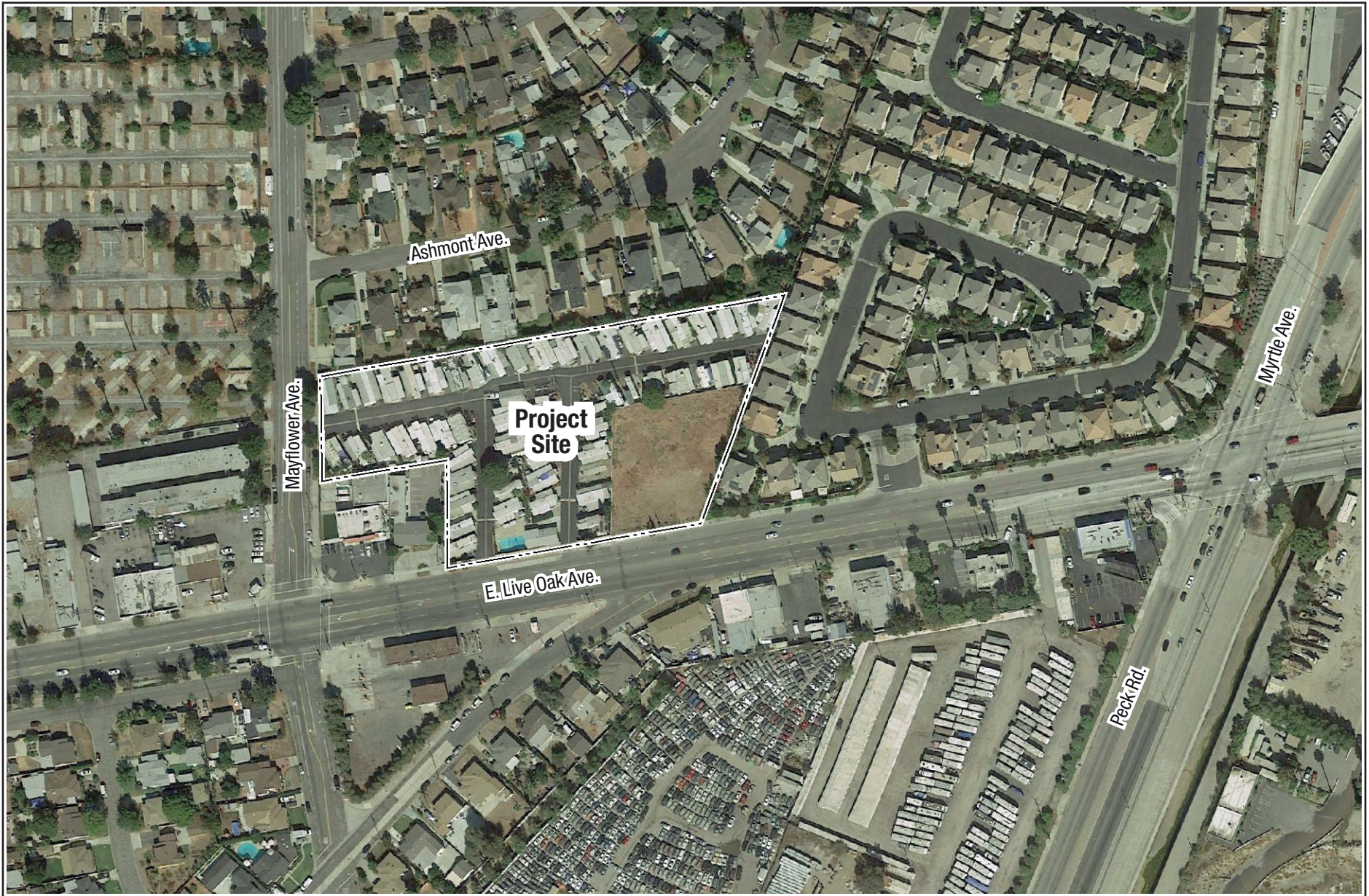
Source: El Monte, California, U.S.G.S. 7.5 Minute Quadrangle

LIVE OAK ARCADIA RESIDENTIAL PROJECT

# Project Location Map







Source: GoogleMaps Pro, Oct. 18, 2016.





**Photo 1** – Northwesterly view of project site from Live Oak Avenue near the intersection with Lynd Avenue, showing vacant portion of project site. Photo taken July 10, 2017.



**Photo 2** – Northwesterly view of the project site from Live Oak Avenue. Photo taken July 10, 2017.



**Photo 3** – Northerly view of the project site from Live Oak Avenue at the eastern project site entrance. Photo taken July 10, 2017.



**Photo 4** – Northeasterly view of the project site from Live Oak Avenue. Photo taken July 10, 2017.



**Photo 5** – Easterly view of the project site from Mayflower Avenue at the project's western driveway entrance. Photo taken July 10, 2017.



●→ Photo locations

As shown on Figure 2, Project Vicinity Map, the three driveways extend into the site and connect near the north-central portion of the Project site, forming the internal driveway network that provides access to all developed portions of the existing mobilehome park. The internal driveway network does not currently access the undeveloped portion of the Project site. Access to public transportation is provided by the Los Angeles County Metropolitan Transportation Authority (LA Metro, or Metro) as well as Foothill Transit lines that use an existing bus stop located on Live Oak Avenue in front of the Project site.

### **General Plan and Zoning Designations**

As the proposed Project is located in an unincorporated area of the County of Los Angeles, it is subject to the goals, objectives, and policies of the Los Angeles County General Plan 2035, including its community, neighborhood, and area plans. The Project is located in the West San Gabriel Valley Planning Area, within the unincorporated South Monrovia Islands community. The Project site's designated land use is Residential 30 (H30), and the site is zoned R-3, Limited Multiple Residence.

### **PROPOSED PROJECT**

The proposed Project would remove existing structures from the site, including demolition of an 862-square foot storage facility, and a 664-square foot laundry room structure. As of May 25, 2018, of the 53 on-site units, 30 are vacant, 18 are owner-occupied, and the remaining 5 are presumed to be owner-occupied. The mobilehome units remaining onsite at the time of Project construction would be hauled from the site for relocation or disposal. Sheds and metal awnings associated with individual mobilehome dwellings are anticipated to be removed whole or disassembled and removed by owners of those items while vacating the Project site property. The combined area of all existing sheds and awnings to be removed is approximately 1,587 square feet and 18,396 square feet, respectively. Additionally, an existing swimming pool, as well as paving and landscaping material would be removed. The two existing billboard signs on the property would also be removed prior to construction.

Approximate earthwork quantities for the Project grading would be 121 cubic yards (cy) of cut, and 4,758 cy of fill, and 9,286 cy of over-excavation, requiring a net import of 4,637 cy of soil. A source site for the fill soil has been identified approximately 1.6 miles to the east of the Project site on Arrow Highway at the intersection of Avenida Barbosa. The haul route for transport of soils would consist of traveling the 1.6 miles from the source site along Arrow Highway, which becomes E. Live Oak Avenue approximately 0.95 miles east of the Project site, and continuing on to the Project site driveway access from E. Live Oak Avenue. Additionally, soil preparation would require over excavation of approximately 9,286 cy and recompaction of 9,286 cy of onsite soils. Approximately 422 truckloads would be required to import soils.

The Project would construct 86 residential condominium/townhome units with associated amenities within an approximately 3.62-acre site, for a net increase of 30 dwelling units as compared to the existing 56 mobilehome spaces currently on the site. The applicant has volunteered to set aside a total of five (5) units designated for moderate income level affordable housing. The 86 residential units would consist of 2-, 3-, and 4-bedroom designs as follows:

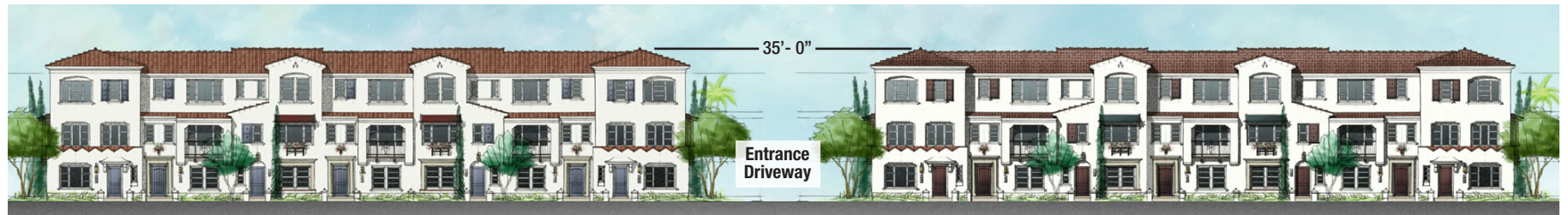
- 2-bedroom units - 22
- 3-bedroom units - 33
- 4-bedroom units - 31
- Total units – 86

The proposed residences would be constructed as twelve (12) three-story buildings, with a maximum height not to exceed 35 feet. **Figure 4, Project Site Plan**, shows the configuration and layout of the proposed buildings. The site plan also includes an optional mail room structure. **Figure 5, Elevations**, shows proposed elevations as viewed from Live Oak Avenue and from Mayflower Avenue. The proposed buildings would





Source: ktgy Architecture + Planning, April 27, 2018.



Building B-500R

Live Oak Avenue Elevation View

Building B-500



Building B-500E

Building B-600

Mayflower Avenue Elevation View

Source: ktyg Architecture + Planning, April 27, 2018.



vary somewhat in layout, floor plans, and number of units, however, the overall height and architectural design of proposed structures within the interior of the site would be similar to those features depicted in the elevations shown in Figure 5.

Proposed structures to be located along the northern Project boundary have been designed to provide a transition from three-story heights down to two-story heights at the northern sides where adjacent to off-site one-story residences as shown in Figure 5. The Project would also include installation of landscaping within common areas, and exterior lighting fixtures for safety along driveway and parking areas, and common areas of the property. All proposed structures would feature articulated rooflines and facades, and would feature earth-tone exterior materials to visually blend with the surroundings. The roof plan for one of the proposed structures has been designed with space for an optional future installation of solar panels behind a parapet that would visually screen solar panels from off-site views. For building permit applications submitted on or after January 1, 2020, pursuant to the California Code of Regulations Title 24, Part 6, (2019 Building Energy Efficiency Standards) Section 150.1(c)14 “All low-rise residential buildings shall have a photovoltaic (PV) system”.

### **Proposed Parking and Internal Circulation**

Access to the Project site and the internal circulation network would be changed by consolidating the two driveway entrances at Live Oak Avenue into a single driveway access. The existing access driveway entrance from Mayflower Avenue would be retained and improved, as would the driveway that crosses the site from west to east from that entryway. The entryways from Live Oak Avenue and Mayflower Avenue would be connected by the internal circulation network, so that residents from any proposed residential unit would have access to two separate entrance/exit points.

Each residence would include an attached two-car garage, providing 172 resident parking spaces. Additionally, the Project would provide 22 exterior guest parking spaces, of which two would be designated for ADA accessibility, for a total of 194 onsite parking spaces, which would exceed parking requirements for compliance with County Code by an additional 43 spaces. All individual unit garages and parking spaces would be accessed from the Project’s internal circulation driveway.

The Project also proposes to provide a total of nine short-term bicycle parking spaces within common areas of the site, and a total of 86 long-term bicycle parking areas within the private units, which would exceed the required total of nine short-term and 43 long-term bicycle parking spaces.

### **Proposed Utilities and Service Systems**

The Project would be served by utilities and service systems that currently provide regional services to the site and surrounding vicinity, including water supply, wastewater treatment, electricity, fire and police protection, and public schools. Trash collection bin storage space for the proposed townhome units would be provided individually within each garage.

### **Proposed Grading**

Project grading would require approximately 121 cubic yards of cut and 4,758 cubic yards of fill, with a net import of approximately 4,637 cubic yards of soil to create level building pads and provide foundational support for the proposed structures. Additionally, soil preparation would require over excavation and compaction of approximately 9,286 cy and recompaction of 9,286 cy of onsite soils. Refer to Project Description below for additional Project details.

## **REQUIRED APPROVALS**

1. Vesting Tentative Tract Map
2. Approval of Mobilehome Park Closure Impact Report.

## EVALUATION OF ENVIRONMENTAL IMPACTS:

- 1) A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources the Lead Department cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
- 2) All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- 3) Once the Lead Department has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.
- 4) "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level. (Mitigation measures from Section XVII, "Earlier Analyses," may be cross-referenced.)
- 5) Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA processes, an effect has been adequately analyzed in an earlier EIR or negative declaration. (State CEQA Guidelines § 15063(c)(3)(D).) In this case, a brief discussion should identify the following:
  - a) Earlier Analysis Used. Identify and state where they are available for review.
  - b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of, and adequately analyzed in, an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
  - c) Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
- 6) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
- 7) The explanation of each issue should identify: the significance threshold, if any, used to evaluate each question, and; mitigation measures identified, if any, to reduce the impact to less than significance. Sources of thresholds include the County General Plan, other County planning documents, and County ordinances. Some thresholds are unique to geographical locations.

**1. AESTHETICS**

	<i>Potentially Significant Impact</i>	<i>Less Than Significant Impact with Mitigation Incorporated</i>	<i>Less Than Significant Impact</i>	<i>No Impact</i>
--	---	--	---	----------------------

Except as provided in Public Resources Code Section 21099, would the project:

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

**No Impact.** The County recognizes that scenic features in the region, such as the coastline and mountain vistas are significant natural resources for the County. A scenic vista is defined as a valued scenic view from a given location, such as a highway, a park, a hiking trail, river/waterway, or even from a particular neighborhood. The boundaries of a viewshed are defined by the field of view to the nearest ridgeline. Scenic viewsheds vary by location and community and can include ridgelines, unique rock outcroppings, waterfalls, ocean views or various other unusual or scenic landforms.<sup>4</sup> Valued views and scenic resources, such as scenic highways, may be identified in general and community plans. The Project site is not located within the vicinity of any designated or eligible scenic highways, or other designated County natural and scenic resources identified in the General Plan Chapter 9: Conservation and Natural Resources Element. The nearest County designated scenic ridgeline and hillside area is Puente Hills<sup>5</sup> which is located approximately 6 miles to the south of the Project site, and is not visible from public roadways in the vicinity due to existing urban development. Portions of the San Gabriel Mountains are located within approximately four miles to the north of the Project site, and are intermittently visible in distant views from Live Oak Avenue. No portion of the San Gabriel Mountains visible from the Project vicinity are County-designated scenic ridgelines. Distant views of the San Gabriel Mountains from Live Oak Avenue in the Project vicinity are interrupted in the foreground by urban development, including homes, landscaping, and billboards. Therefore, views of the San Gabriel Mountains in the Project vicinity would not be considered to represent a scenic vista.

The Project site is a flat irregularly shaped infill parcel, consisting of an existing mobilehome park and a currently vacant lot. Surrounding properties consists of a variety of residential, commercial and automotive uses. The proposed Project would not interfere with public scenic vistas, and would not have a substantial adverse effect on a scenic vista.

b) **Be visible from or obstruct views from a regional riding, hiking, or multi-use trail?**                       

**No Impact.** The nearest multi-use trail is the Rio Hondo Bike Trail that runs along the Santa Anita Wash, and crosses Live Oak Avenue approximately 0.5 miles directly west of the Project site. However, because there are no scenic resources proximate to the Project site and the surrounding area is already urbanized, the development of the proposed structures on the site would not be visible from or obstruct views from a regional riding or hiking trail.

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

<sup>4</sup> Los Angeles County General Plan Chapter 9: Conservation and Natural Resources Element.

<sup>5</sup> Los Angeles County General Plan, Figure 9.8, Hillside Management Areas and Ridgeline Management Map, adopted October 6, 2015.

**No Impact.** The Project site is not within the vicinity of a designated scenic highway. The Project proposes to replace an existing mobilehome park by removing the mobilehomes and associated structures, and redevelop the site with a new townhome complex. Removal of the mobilehome park would include removal of existing ornamental trees and landscaping. In addition to the existing mobilehome park property, the approximately 3.6-acre Project site includes a currently undeveloped parcel. The Project site consists of a flat irregularly shaped infill parcel, and is surrounded by urban development including residential and commercial uses. As such, the Project would not substantially damage scenic resources, including within a state scenic highway, and the Project would have no impact regarding this issue.

**d) Substantially degrade the existing visual character or quality of public views of the site and its surroundings because of height, bulk, pattern, scale, character, or other features or conflict with applicable zoning and other regulations governing scenic quality? (Public views are those that are experienced from publicly accessible vantage point)**                       

**Less Than Significant Impact.** The Project proposes to replace an existing mobilehome park and vacant property with a new townhome development on a flat infill property. The existing mobilehome park is partially concealed by a cinder block wall along Live Oak, and the vacant lot is surrounded by chain link fencing. Two legal non-conforming roadside billboards along Live Oak Avenue would be removed prior to construction. The proposed development would have a maximum height of three-stories or 35 feet, inclusive of any roof-mounted equipment or parapets. Surrounding properties consist of one- and two-story single-family residences, multi-family residences, and commercial uses. The Project would primarily front to Live Oak Avenue, between commercial uses and a residential development of two-story homes. The site would also be adjacent to existing development along Mayflower Avenue, including commercial uses, two-story multi-family housing, and single-family homes. The north boundary of the Project would be adjacent to the backyards of single-family residences of one- and two-stories along Ashmont Avenue. Proposed structures to be located along the northern Project boundary have been designed with two-story heights at the northern sides to provide a transition in building heights between the existing one- and two-story residences to the north and the proposed Project. A development of three-story townhomes is currently under construction on the south side of Live Oak Avenue directly across from the proposed Project site. In addition to the surrounding land uses that are existing or under construction, the recently approved Santa Anita Village Townhome Project located west of the Project site on Live Oak Avenue and Mayflower Avenue, would develop three- and four-story townhomes in the immediate vicinity of the Project.

The proposed Project would not be out of character in height and scale to the surrounding commercial and residential uses, as well as those under construction or approved within the immediate vicinity, and would not degrade the visual character or quality of the site or surrounding urban uses. Consequently, the Project's impacts to visual character would be less than significant.

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

**Less Than Significant Impact.** Street lights and lighting from adjacent residential and commercial uses currently exist in the vicinity of the Project site, as well as from the active uses that currently operate on the site. Exterior surfaces of the proposed townhomes would be finished with materials such as stucco and wood surfaces that would not create reflective glare. Exterior lighting associated with the Project's parking and common areas would be downward facing, and similar to that of surrounding commercial and residential



developments. One of the proposed townhouse structures has been designed to incorporate optional solar panels mounted on the roof. If constructed, optional solar panels would be concealed from views from offsite areas to the north, east and west by the roof plan design, and by a parapet extending above the roof edge to the south, as well as the other proposed townhome structures on the site. For building permit applications submitted on or after January 1, 2020, pursuant to the California Code of Regulations Title 24, Part 6, (2019 Building Energy Efficiency Standards) Section 150.1(c)14 “All low-rise residential buildings shall have a photovoltaic (PV) system”. Total building height including the parapet would not exceed the height limit of 35 feet. In addition to the visual screening that would be provided by the Project to reduce potential reflection impacts, the surface of a solar panel is designed to absorb light rather than reflect it. Consequently, the Project would not introduce a new source of substantial light or glare that would adversely affect day or nighttime views in the area, and impacts would be less than significant.

**References:**

- Los Angeles County General Plan Chapter 9: Conservation and Natural Resources Element.
- Los Angeles County General Plan, Figure 9.8, Hillside Management Areas and Ridgeline Management Map, adopted October 6, 2015.

**2. AGRICULTURE / FOREST**

	<i>Potentially Significant Impact</i>	<i>Less Than Significant Impact with Mitigation Incorporated</i>	<i>Less Than Significant Impact</i>	<i>No Impact</i>
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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?

**No Impact.** The Project site is not designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on Los Angeles County Important Farmland 2014 map prepared pursuant to the Farmland Mapping and Monitoring Program of the California Department of Conservation Division of Land Resource Protection.<sup>6</sup> As such, the Project would have no impact regarding this issue.

b) Conflict with existing zoning for agricultural use, with a designated Agricultural Resource Area, or with a Williamson Act contract?

**No Impact.** The Project site is zoned R-3 for residential uses, and is currently developed with a mobilehome park on the majority of the property. As such, the Project would not conflict with existing zoning regarding agricultural use, and the Project would have no impact regarding this issue.

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

**No Impact.** The Project site is currently developed with residential uses on the majority of the site, with a small portion that is currently vacant. The site is not zoned for forest land or timber production. As such, the Project would have no impact regarding this issue.

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

**No Impact.** The Project site is currently developed with residential uses and associated landscaping on the majority of the site, with a small portion that is currently vacant. There are no forest lands within the site. As such, the Project would have no impact regarding this issue.

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<sup>6</sup> California Department of Conservation Division of Land Resource Protection Farmland Mapping and Monitoring Program, Los Angeles County Important Farmland 2016, Map published July 2017.

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

**No Impact.** There are no farmlands or timberlands on the site or in the vicinity. The Project would have no impact regarding changes in the environment that could result in conversion of farmland or forest land.

**References:**

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

### 3. AIR QUALITY

	<i>Potentially Significant Impact</i>	<i>Less Than Significant Impact with Mitigation Incorporated</i>	<i>Less Than Significant Impact</i>	<i>No Impact</i>
<p><b>Would the project:</b></p> <p><b>a) Conflict with or obstruct implementation of applicable air quality plans of either the South Coast AQMD (SCAQMD) or the Antelope Valley AQMD (AVAQMD)?</b></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Less Than Significant Impact.** The Project site is located within the South Coast Air Basin (SCAB), which is bounded by the Pacific Ocean to the south and west and mountains to the north and east. Air quality in the South Coast Air Basin is managed by the South Coast Air Quality Management District (SCAQMD). The SCAQMD and the Southern California Association of Governments (SCAG) are the agencies responsible for preparing the Air Quality Management Plan (AQMP) for the SCAB.

On March 3, 2017 the SCAQMD approved the 2016 AQMP that includes the integrated strategies and measures needed to meet the National Ambient Air Quality Standards (NAAQS). The 2016 AQMP demonstrates attainment of the 1-hr and 8-hr ozone NAAQS as well as the latest 24-hr and annual PM2.5 standards.

CEQA requires that projects be consistent with the AQMP. A consistency determination plays an essential role in local agency project review by linking local planning and unique individual projects to the AQMP in the following ways: (1) it fulfills the CEQA goal of fully informing local agency decision-makers of the environmental costs of the project under consideration at a stage early enough to ensure that air quality concerns are fully addressed; and (2) it provides the local agency with ongoing information assuring local decision-makers that they are making real contributions to clean air goals contained in the AQMP.

Only new or amended General Plan elements, specific plans, and regionally significant projects need to undergo a consistency review. This is because the AQMP strategy is based on projections from local General Plans. Projects that are consistent with the local General Plan are, therefore, considered consistent with the air quality management plan.

The Project does not propose a General Plan Amendment, and it does not meet the criteria for a project of statewide, regional, or areawide significance as defined in the CEQA Statute and Guidelines Section 15206. Additionally, development on the Project would not result in significant regional or local air pollutant emissions as shown in Sections 3.b), and 3.d), below. As such, the Project would be consistent with the goals of 2016 AQMP.

<p><b>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?</b></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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**Less Than Significant Impact.** Project-related air quality emissions analysis was performed using California Emissions Estimator Model (CalEEMod.2016.3.2), a model developed for the California Air Pollution Officers Association (CAPCOA) in collaboration with the California Air Districts<sup>7</sup> by which to calculate construction and operational emissions. The model calculates both the daily maximum and annual average emissions for criteria pollutants. Project CalEEMod output data is provided in **Appendix A**. The following analysis of the Project's impact on regional emissions of criteria pollutants is based on a comparison of the Project's estimated emissions for construction and operations as calculated by CalEEMod with SCAQMD Air Quality Significant Thresholds.

### **Construction Impacts**

During construction, the Project would generate air pollutant emissions associated with use of heavy equipment on the site during demolition, site preparation and grading, and construction activities. Common sources of emissions during construction include vehicle exhaust, fugitive dust from soil disturbance and emissions from paints.

The 51 existing mobilehomes and 2 RVs would need to be towed off of the site for either relocation or disposal. According to the mobilehome closure impact report (CIR), the existing mobilehome units are estimated to be approximately 15 years to 66 years old, where 14 of the units are at least 40 years old. The CIR concludes it is unlikely that any of the units could be relocated to another park due to the age and condition of the units.<sup>8</sup> An existing laundry room structure and storage room structure (1,526 square feet combined) would require demolition onsite. Existing sheds and metal awnings associated with individual mobile homes are the property of tenants and are anticipated to be removed whole or disassembled for removal with the mobilehome by the individual tenants when vacating the Project site property, unless such additions are turned over to the mobilehome park operator for demolition. However, for a conservative analysis, the construction period emissions have been estimated assuming the total square footage of existing awnings and sheds (18,396 and 1,587 square feet, respectively) would be demolished onsite.

The Project site is a relatively flat, infill property, of less than 5 acres. Construction of the Project would involve standard grading, trenching, paving, building and coatings, typical of construction activities that occur in urban areas. Approximate earthwork quantities for Project grading would be 121 cubic yards (cy) of cut, and 4,758 cy fill, requiring a net import of 4,637 cy of soil, and over excavation of approximately 9,286 cy and recompaction of 9,286 cy of onsite soils. Approximately 422 truckloads would be required to import soils. Although a source for import soil has been identified less than two miles from the site as described in the Project Description, for a conservative analysis, the evaluation of construction impacts is based on an estimated haul distance of 20 miles for soil import. Actual emissions from construction activities associated with hauling soil would be less than estimated by CalEEMod.

SCAQMD's Rule 403 governs fugitive dust emissions from construction projects. This rule sets forth a list of control measures that must be undertaken for all construction projects to ensure that no dust emissions from the Project are visible beyond the property boundaries. These measures include: (1) soil stabilizers shall be applied to unpaved roads; (2) ground cover shall be quickly applied in all disturbed areas; and (3) the active construction site shall be watered twice daily. Adherence to Rule 403 is mandatory.

The SCAQMD thresholds for determining the regional significance of construction air quality impacts based on daily maximum emissions of criteria pollutants are:

- 75 pounds per day for ROG (reactive organic gases)
- 100 pounds per day for NO<sub>x</sub> (oxides of nitrogen)

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<sup>7</sup> CalEEMod, Home page, accessed at <http://www.caleemod.com/> on May 21, 2018.

<sup>8</sup> Overland Pacific and Cutler LLC, Live Oak Community Park Closure Impact Report, May 28, 2018.

- 550 pounds per day for CO (carbon monoxide)
- 150 pounds per day of SO<sub>x</sub> (oxides of sulfur)
- 150 pounds per day for PM<sub>10</sub> (respirable 10-micron diameter particulate matter)
- 55 pounds per day for PM<sub>2.5</sub> (respirable 2.5-micron diameter particulate matter)

**Table 3-1, Construction Activity Maximum Daily Emissions**, summarizes the Project’s maximum daily emissions estimated by CalEEMod. Based on these estimates, all Project construction emissions would be below their respective thresholds and the impact is less than significant.

**Table 3-1  
Construction Activity Maximum Daily Emissions**

	<b>ROG</b>	<b>NO<sub>x</sub></b>	<b>CO</b>	<b>SO<sub>2</sub></b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>
<b>Maximum Daily Emissions (lbs/day)<sup>(a)</sup></b>	<b>50.5</b>	<b>63.5</b>	<b>40.2</b>	<b>0.10</b>	<b>7.2</b>	<b>4.5</b>
SCAQMD Thresholds	75	100	550	150	150	55
Exceeds Threshold?	No	No	No	No	No	No
Source: CalEEMod.2016.3.2 Output in Appendix A.						
<sup>(a)</sup> Includes compliance with SCAQMD Rule 403 for reducing construction dust emissions by watering exposed soils twice daily.						

**Operational Impacts**

Long-term or operational emissions are caused by mobile emissions from truck and passenger vehicle traffic, and stationary source emissions from building heating and electrical systems. For residential developments, such as the proposed Project, the major source of long-term air quality impacts for criteria pollutants is mobile source emissions due to vehicle trips. In addition to mobile source emission, the Project would generate area source emissions due to onsite activities such as use of natural gas for heating, and property maintenance including landscaping and periodic repainting. Operational emissions from energy sources are also generated offsite for electrical generation to serve the Project.

Operational emissions of criteria pollutants are considered regionally significant if they exceed the following maximum daily thresholds that have been established by SCAQMD:

- 55 pounds per day for ROG (reactive organic gases)
- 55 pounds per day for NO<sub>x</sub> (oxides of nitrogen)
- 550 pounds per day for CO (carbon monoxide)
- 150 pounds per day of SO<sub>x</sub> (oxides of sulfur)
- 150 pounds per day for PM<sub>10</sub> (respirable 10-micron diameter particulate matter)
- 55 pounds per day for PM<sub>2.5</sub> (respirable 2.5-micron diameter particulate matter)

The Project’s operational emissions of criteria pollutants are summarized in **Table 3-2, Operational Maximum Daily Emissions**. For this evaluation, the Project’s mobile source emissions have been estimated based on the gross total of new residences for a conservative analysis. Due to the Project’s removal of existing mobilehome residences from the site, the actual net increase over existing conditions would be less than the amounts evaluated here.

**Table 3-2**  
**Operational Maximum Daily Emissions**

Source	Maximum Operational Emissions (lbs/day)					
	ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Area	3.3	0.1	7.1	< 0.1	< 0.1	< 0.1
Energy	< 0.1	0.4	0.2	< 0.1	< 0.1	< 0.1
Mobile <sup>(a)</sup>	1.0	5.1	13.7	< 0.1	3.7	1.0
<b>Total</b>	<b>4.4</b>	<b>5.5</b>	<b>21.0</b>	< 0.1	<b>3.8</b>	<b>1.1</b>
SCAQMD Thresholds	55	55	550	150	150	55
Exceeds Threshold?	No	No	No	No	No	No
Source: CalEEMod.2016.3.2 Output in Appendix A. Totals may differ due to rounding. <sup>(a)</sup> Mobile source emissions are represented on a gross basis, and do not reflect the project's net increase in emissions, which would be lower than shown in this table.						

c) Expose sensitive receptors to substantial pollutant concentrations?

**Less Than Significant Impact.** A significant impact may occur if a project were to generate pollutant concentrations to a degree that would significantly affect sensitive receptors. Sensitive receptors are populations that are generally more susceptible to the effects of air pollution than the population at large. Land uses considered to be sensitive receptors include residences, long-term care facilities, schools, playgrounds, parks, hospitals, and outdoor athletic facilities. The closest sensitive receptors that could potentially be subject to localized air quality impacts associated with construction of the proposed Project would be existing residences adjacent to the Project site.

Localized Significance Threshold (LST) analysis was conducted for the proposed Project. LSTs are only applicable for certain criteria pollutants: oxides of nitrogen (NO<sub>x</sub>), carbon monoxide (CO), and particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>). The SCAQMD provides screening tables to determine the potential significance of a proposed project. The screening tables provide thresholds based on project sites of 1-, 2-, and 5-acres, with threshold values listed for various distances from sensitive receptors. For this evaluation, the threshold values for a 2-acre site were used for a conservative analysis. Adjustments of the thresholds to account for the proposed Project's actual size of over 3 acres would result in higher threshold values. For the proposed Project, the most stringent 25-meter source-receptor distance was used to evaluate LST impacts due to the adjacent residences. As discussed in Section 3.b), during construction the Project would be required to implement dust control measures to comply with SCAQMD Rule 403, which would include watering disturbed surfaces to minimize fugitive dust (PM<sub>10</sub> and PM<sub>2.5</sub>). As this evaluation is for local significance effects, only on-site emissions estimated by CalEEMod are analyzed here. As shown in **Table 3-3, LST and Project Emissions**, construction emissions would not exceed LST thresholds, and impacts would be less than significant.

**Table 3-3**  
**LST and Project Emissions**

LST 2 acre/25 meters E San Gabriel Valley	LST Emissions (lbs/day)			
	CO	NO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Max. On-site Emissions <sup>(a)</sup>	22.1	35.8	4.2	2.8
LST Thresholds	953	128	7	5
Exceeds Threshold?	No	No	No	No
Source: CalEEMod.2016.3.2 Output in Appendix A. <sup>(a)</sup> Includes compliance with SCAQMD Rule 403 for reducing construction dust emissions by watering exposed soils twice daily.				

Due to the age of the existing mobilehome park, the two structures to be demolished onsite could contain asbestos containing materials ACM. Asbestos is a carcinogen and is categorized as a hazardous air pollutant by the Environmental Protection Agency (EPA). As such, SCAQMD Rule 1403 incorporates the requirements of the federal asbestos requirements found in National Emission Standards for Hazardous Air Pollutants (NESHAP) Link to external website. found in the Code of Federal Regulations (CFR) Title 40, Part 61, Subpart M.<sup>9</sup> The purpose of Rule 1403 is to specify work practice requirements to limit asbestos emissions from building demolition and renovation activities, including the removal and associated disturbance of ACM. The requirements for demolition and renovation activities include asbestos surveying, notification, ACM removal procedures and time schedules, ACM handling and clean-up procedures, and storage, disposal, and landfilling requirements for asbestos-containing waste materials (ACWM). All operators are required to maintain records, including waste shipment records, and are required to use appropriate warning labels, signs, and markings. This rule, in whole or in part, is applicable to owners and operators of any demolition or renovation activity, and the associated disturbance of asbestos containing material, any asbestos storage facility, or any active waste disposal site. Compliance with Rule 1403 would reduce potential exposure to ACM to less than significant.

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

**Less Than Significant Impact.** During construction, heavy equipment exhaust, paving materials, or paint fumes could create temporary odors typical of construction activities. Nuisance odors associated with these activities would be of short duration, and would be diluted at off-site locations. Therefore, the potential impact of construction odors would be less than significant.

Land uses typically associated with objectionable odors are generally related to industrial or manufacturing uses, waste disposal or treatment facilities, and agricultural uses. Operational odors associated with residential uses, such as trash containers, generally do not produce nuisance odors discernible beyond the property boundary. The Project proposes to provide space for trash and recyclable bins within individual garages for each proposed residence unit, rather than a consolidated community dumpster location. As such, the Project’s potential to create substantial odors during operations would be less than significant.

**References:**

- South Coast Air Quality Management District (SCAQMD), Final 2016 Air Quality Management Plan (AQMP), March 2017.
- South Coast Air Quality Management District (SCAQMD), Localized Significance Thresholds, Accessed at <http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/localized-significance-thresholds> on May 21, 2017.
- South Coast Air Quality Management District (SCAQMD), SCAQMD Air Quality Significance Thresholds, Revision March 2015, Accessed at <http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook> on May 21, 2018.
- South Coast Air Quality Management District (SCAQMD), Rule 403 Fugitive Dust, Amended June 3, 2005, Accessed at <http://www.aqmd.gov/home/rules-compliance/rules/scaqmd-rule-book/regulation-iv> on May 21, 2018.
- CalEEMod, Home page, accessed at <http://www.caleemod.com/> on May 21, 2018.

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<sup>9</sup> South Coast Air Quality Management District, Asbestos Demolition & Removal, Accessed at <http://www.aqmd.gov/home/rules-compliance/compliance/asbestos-demolition-removal> on November 30, 2018.



#### 4. BIOLOGICAL RESOURCES

	<i>Potentially Significant Impact</i>	<i>Less Than Significant Impact with Mitigation Incorporated</i>	<i>Less Than Significant Impact</i>	<i>No Impact</i>
<p><b>Would the project:</b></p> <p><b>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 (CDFW) or U.S. Fish and Wildlife Service (USFWS)?</b></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**No Impact.** Records of documented occurrences of state or federal endangered species identified in the Endangered Species Acts, as well as certain species of special concern designated by the CDFW or USFWS, have been inventoried in the California Natural Diversity Database (CNDDDB), which is maintained by the California Department of Fish and Wildlife (CDFW). The CNDDDB was queried for the 9 USGS 7.3 minute quadrangle region containing the project site (El Monte, Pasadena, Mt. Wilson, Azusa, Los Angeles, Baldwin Park, South Gate, Whittier, and La Habra). The CNDDDB/CNPS Literature Search Results are provided in **Appendix B**. The site does not provide habitat for any of the species identified in the query results, and no substantial adverse effect on any species is anticipated. This Project would have no impact on candidate, sensitive, or special status species.

<p><b>b) Have a substantial adverse effect on any sensitive natural communities (e.g., riparian habitat, coastal sage scrub, oak woodlands, non-jurisdictional wetlands) identified in local or regional plans, policies, regulations or by CDFW or USFWS?</b></p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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**No Impact.** The Conservation and Natural Resources Element of the General Plan identifies the biological resources and important habitat areas in the unincorporated areas of Los Angeles County. The Element identifies Significant Ecological Area (SEAs) within the County, which designate land that contains irreplaceable biological resources. Within the SEA areas, the Element establishes policies to conserve genetic and physical diversity by designating biological resource areas that are capable of sustaining themselves into the future. The Project site is not located within any County designated SEA.

The Project site and surrounding properties are located within a previously developed and urbanized area, and the Project site does not include any natural communities such as riparian habitat, coastal sage scrub, oak woodlands, or wetlands. The Project site is primarily developed with mobilehomes and other structures, paving, and ornamental landscaping. The vacant portion of the site was previously developed with a restaurant and is surrounded by existing urban development. Grasses and weeds within the vacant portion of the property are periodically cut. Therefore, the Project would have no impact on sensitive natural communities.

c) Have a substantial adverse effect on federally protected wetlands (including, but not limited to, marshes, vernal pools, coastal wetlands, and drainages) or waters of the United States or California, as defined by § 404 of the federal Clean Water Act or California Fish & Game code § 1600, et seq. through direct removal, filling, hydrological interruption, or other means?

**No Impact.** According to the USFWS National Wetlands Mapper,<sup>10</sup> no natural wetlands are located within the Project site (see Appendix B). The Santa Anita Wash is located approximately 2,400 feet west of the Project site and the Sawpit Wash is located approximately 900 feet east of the Project site. Both washes are contained in concrete channels and drain into a lake at Peck Road Park located approximately 0.5 mile southwest of the Project site. Therefore, the Project would not cause a substantial adverse effect on federally protected wetlands.

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?

**Less Than Significant Impact.** The Project site is developed and surrounded by urban land uses and does not contain riparian or sensitive habitats or wetlands. Existing block walls and a fence bound the currently vacant portion of the site, and as such, the site does not represent a wildlife corridor. Existing vegetation on the site consists of landscaping trees and shrubs within the mobilehome park and the vacant portion of the site. As the vegetation on the site is surrounded by existing development, it does not provide suitable habitat for native resident species or migratory wildlife.

Ground and vegetation disturbing activities if conducted during the nesting bird season (February 1 to August 31) would have the potential to result in removal or disturbance to trees and shrubs that could contain active bird nests. Migratory nongame native bird species are protected by international treaty under the Federal Migratory Bird Treaty Act (MBTA) of 1918 (50 C.F.R. Section 10.13). Sections 3503, 3503.5, and 3513 of the California Fish and Game Code prohibit take of all birds and their active nests including raptors and other migratory nongame birds (as listed under the Federal MBTA). Compliance with these laws will reduce impacts to nesting birds to a less than significant level.

The Project would not otherwise interfere with the movement of any native resident or migratory fish or wildlife species, and no impacts to wildlife movement would occur.

e) Convert oak woodlands (as defined by the state, oak woodlands are oak stands with greater than 10% canopy cover with oaks at least 5 inch in diameter measured at 4.5 feet above mean natural grade) or other unique native woodlands (juniper, Joshua, southern California black walnut, etc.)?

<sup>10</sup> <http://www.fws.gov/wetlands/data/mapper.HTML>; accessed July 15, 2017.

**No Impact.** The Project site is located within an urbanized area. The majority of the site is developed with a mobilehome park. Vegetation within the mobilehome park consists of ornamental landscaping and does not contain oak woodlands. The vacant portion of the property was previously developed with a restaurant and does not contain oak woodlands. Therefore, the Project would have no impact regarding conversion of oak woodlands, or other unique native tree woodlands.

f) Conflict with any local policies or ordinances protecting biological resources, including Wildflower Reserve Areas (L.A. County Code, Title 12, Ch. 12.36), the Los Angeles County Oak Tree Ordinance (L.A. County Code, Title 22, Ch. 22.174), the Significant Ecological Areas (SEAs) (L.A. County Code, Title 22, Ch. 102), and Sensitive Environmental Resource Areas (SERAs) (L.A. County Code, Title 22, Ch. 22.44)?

**No Impact.** The site is urbanized and surrounded by urban land uses. There are no County policies protecting biological resources applicable to the Project site. Consequently, the Project would not conflict with local policies protecting biological resources.

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

**No Impact.** The Project site is not within a designated Significant Ecological Area. The site is urbanized and surrounded by urban land uses. There are no state, regional or local habitat conservation plans applicable to the Project site. Consequently, the Project would not conflict with a habitat conservation plan.

**References:**

- U.S. Fish & Wildlife Service, National Wetlands Inventory, accessed at <http://www.fws.gov/wetlands/data/mapper.HTML> on July 15, 2017.

## 5. CULTURAL RESOURCES

<i>Potentially Significant Impact</i>	<i>Less Than Significant Impact with Mitigation Incorporated</i>	<i>Less Than Significant Impact</i>	<i>No Impact</i>
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Would the project:

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

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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**No Impact.** The CEQA Guidelines, Section 15064.5, define “historic resources” as resources listed in the California Register of Historical Resources, or determined to be eligible by the California Historical Resources Commission for listing in the California Register of Historic Resources. The criteria for eligibility are generally set by the Historic Sites Act of 1935, which established the National Register which recognizes properties that are significant at the national, state and local levels. To be eligible for listing in the National Register, a district, site, building, structure, or object that must possess integrity of location, design, setting, materials, workmanship, feeling and association relative to American history, architecture, archaeology, engineering, or culture.<sup>11</sup>

Generally, a resource shall be considered by the lead agency to be “historically significant” if the resource meets the criteria for listing on the California Register of Historical Resources (Pub. Res. Code § 5024.1, Title 14 CCR, Section 4852) including the following:

- (A) Is associated with events that have made a significant contribution to the broad patterns of California’s history and cultural heritage;
- (B) Is associated with the lives of persons important in our past;
- (C) Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or
- (D) Has yielded, or may be likely to yield, information important in prehistory or history.

In addition, unless the property possesses exceptional significance, it must be at least 45-50 years old to be eligible.

The Project site contains 56 mobilehome spaces and two accessory structures, a laundry room; and a storage room that do not meet the criteria for listing on the California Register of Historical Resources. Table 9.8 of the General Plan Chapter 9: Conservation and Natural Resources Element list the historic resource sites within the County unincorporated area, none of which are in the vicinity of the Project site.

On December 20, 2018, Envicom Corporation (Envicom) completed a Phase I cultural resource assessment of the Project site, which is included as **Appendix C**. The cultural resource assessment includes a cultural resource records search, a review of historical imagery, and a pedestrian survey. A cultural resource records search for the project was conducted by the South-Central Coast Information Center (SCCIC). This included a review of existing records held by the SCCIC, part of the California Historical Resources Information System (CHRIS).

On May 11, 2017, Envicom contacted the SCCIC with a cultural records search request to identify existing records, which encompassed the Project site and a 0.33-mile radius. The records search included a request for

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<sup>11</sup> Guidelines for Completing National Register Forms, National Register Bulletin 16, U.S. Department of the Interior, National Park Service, September 30, 1986 (“National Register Bulletin 16”).

all complete site records for cultural resources within the Project area, as well as copies of any cultural resource technical reports that intersect with the location of the proposed Project. At the request of the lead agency, Envicom requested a revised record search from SCCIC on December 11, 2018 with the study area expanded to 0.5-miles. The December 13, 2018, report is included as an appendix to the cultural resource assessment.

The 0.5-mile search identified three building resources (P-19-190065, P-19-190350, and P-19-192202) within the study area and a historic property (Village Presbyterian Church of Arcadia). The resource identified as P-19-190065 is the Church of the Annunciation Catholic Church located within 0.25-mile of the project site. The resources identified as P-19-190350 (a residence on East Longden Avenue) and P-19-192202 (a residence on South 8th Street), and the Village Presbyterian Church of Arcadia, which is designated as a local historic resource by the City of Arcadia, are located within a 1/2 mile of the project site. These historic built environment resources are located 1/4 mile to a 1/2 mile from the subject property and would not be impacted by the Project.

Since the Project site does not contain historical resources and the SCCIC search results indicate built environment resources are not located adjacent to the proposed project, the project would not result in a substantial adverse change in the significance of a historical resource.

**b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to CEQA Guidelines § 15064.5?**                                                                                       

**Less Than Significant Impact With Mitigation.** An archaeological resource is any material remains of human life or activities which are at least 100 years of age, and which are of archaeological interest. On December 20, 2018, Envicom Corporation (Envicom) completed a Phase I cultural resource assessment of the Project site (**Appendix C**) consisting of cultural records searches and a pedestrian survey.

The cultural resource assessment includes a cultural resource records search conducted by the South-Central Coast Information Center (SCCIC) and a Native American sacred lands search conducted by the Native American Heritage Commission (NAHC). The purpose of the records searches is to identify any previous cultural resources that have been recorded within the proposed project area, to provide cultural resource context for the project, and to assess the overall cultural resource sensitivity of the project region.

On May 11, 2017, Envicom contacted the SCCIC with a cultural records search request to identify existing records which encompassed the Project site and a 0.33-mile radius. The records search included a request for all complete site records for cultural resources within the Project area, as well as copies of any cultural resource technical reports that intersect with the location of the proposed Project. At the request of the lead agency, Envicom requested a revised records search from SCCIC on December 11, 2018 with the study area expanded to 0.5-miles. Based on SCCIC search results, there are no known archaeological resources located on-site or within the immediate vicinity of the project site. The SCCIC results indicate 13 reports are related to the 0.5-mile search area. According to the Phase 1 Cultural Resources Assessment, seven of the cultural resource reports (LA-06859, LA-08211, LA-09238, LA-10583, LA-11108, LA-11936, and LA-12497) are associated with properties or areas near the outer edge of the study radius, and do not pertain to the project site. The Cultural Resource Assessment also indicates six of the 13 cultural resource reports (LA-03511, LA-03583, LA-04323, LA-11484, LA-11747, and LA-11748) provide broad discussions of the project area, and such “overview” documents often contain general historic or prehistoric information, but do not include detailed discussions of cultural resources. Details on all of these cultural resources, cultural resource reports, and the rest of the SCCIC non-confidential report material are provided with the Project’s Cultural Resource Assessment.

The results from the 2017 NAHC record search were received on May 15, 2017, with negative findings. A subsequent NAHC record search was requested by the lead agency on November 16, 2018. A response to the subsequent NAHC record search request was received on December 5, 2018, and was positive for Native American cultural resources. The positive finding was based on the El Monte USGS Quadrangle which covers an area of 62 square miles.<sup>12</sup>

The majority of the site is currently occupied by a mobilehome park and the Project's Phase I Environmental Site Assessment reports the vacant portion of the site was previously developed with a structure by 1953 that was removed by 1989.<sup>13</sup> Therefore, the entirety of the site has undergone previous development. Additionally, the pedestrian survey of the vacant portion of the project site was negative for the presence of surficial cultural resources. According to the Project's Geotechnical Engineering Investigation, the proposed 86-unit condominium Project does not include basements or subterranean parking that would require wide-scale excavations. However, grading activities would require over-excavation of three to five feet for all proposed structures extending three feet beyond the foundation of the structures, plus excavation below ground surface for installation of utilities and underground stormwater detention structures near Live Oak and Mayflower Avenues.

According to the EIR prepared for the 2015 Los Angeles County General Plan Update, archaeological materials have been found throughout the county, both in urbanized and undeveloped locations. Based on the pre-historic and historic background of the region, the presence of subsurface archaeological resources is always a possibility in areas where only surface inspection has taken place. Therefore, compliance with the following mitigation measure would reduce potential impacts concerning unanticipated discovery of unknown archaeological resources to less than significant:

#### MM CR-1

**In the event, archaeological cultural resources are encountered during Project construction, all ground-disturbing activities within the vicinity of the find shall cease and a qualified archaeologist and the County's Department of Regional Planning shall be notified of the find. The archaeologist be allowed sufficient time to evaluate and collect the find. All recovered archaeological resources shall be recorded and filed with the California Historical Resources Information System—South Central Coastal Information Center, as required by the California Office of Historic Preservation. Based on the significance of the find, the archaeologist will determine the extent of further monitoring requirements for subsequent ground-disturbing activities in accordance with the U.S. Secretary of the Interior and California Office of Historic Preservation guidelines, including but not limited to a Phase III data recovery and associated documentation, and in consultation with the designated Native American representative.**

**A copy of the report that is filed with the SCCIC shall be provided to the County of Los Angeles Department of Regional Planning, and the California Historical Resources Information System—South Central Coastal Information Center, as required by the California Office of Historic Preservation. The report shall include documentation of the resources recovered, a full evaluation of the eligibility with respect to the California Register of Historical Resources, and treatment of the resources recovered.**

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<sup>12</sup> State of California, Department of Conservation, Division of Mines and Geology, Seismic Hazard Zone Report for the El Monte 7.5-Minute Quadrangle, Los Angeles County, California, 1998, [http://gmw.consrv.ca.gov/SHP/EZRIM/Reports/SHZR/SHZR\\_024\\_El\\_Monte.pdf](http://gmw.consrv.ca.gov/SHP/EZRIM/Reports/SHZR/SHZR_024_El_Monte.pdf).

<sup>13</sup> The Reynolds Group, Phase I Environmental Site Assessment Report Mobilehome Park and Undeveloped Parcel 4343 and 4372 E. Live Oak Avenue, March 24, 2017.

c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

**Less Than Significant Impact.** According to the General Plan Conservation and Natural Resources Element, over 1,000 fossil localities have been recorded and in excess of a million specimens have been collected in Los Angeles County. Of the locations listed in the Conservation element where paleontological resources have been found, the nearest to the proposed Project site is the Puente Hills area, which is approximately seven miles south of the Project vicinity. The project site is flat and does not contain a unique geologic feature or rock formations. Therefore, the potential for the Project to impact unknown paleontological resources would be less than significant.

d) Disturb any human remains, including those interred outside of dedicated cemeteries?

**Less Than Significant Impact.** The Project site is located in an urbanized area that has been graded. The majority of the Project site is developed with a 56-space mobilehome park. The vacant portion of the project site was previously developed with a restaurant. The Project Site is located in an area that was occupied during the late Prehistoric Period by indigenous Gabrielino/Tongva peoples since prehistoric times.

The NAHC identifies and catalogs Native American cultural resources including places of special religious or social significance, and known graves and cemeteries on private lands. Therefore, a records search of the NAHC's Sacred Lands File was completed for the area of potential project effect (APE) on May 15, 2018, which returned negative findings. A subsequent sacred lands search, based on the El Monte USGS Quadrangle which covers an area of 62 square miles, was completed on December 5, 2018, with positive results.<sup>12</sup>

The County's General Plan Update EIR, distinguishes between Native American sacred sites and isolates. The 2015 certified EIR states, "A Native American sacred site is defined as an area that has been and often continues to be of religious significance to Native American peoples, such as an area where religious ceremonies are practiced or an area that is central to their origins as a people" (pg. 419). The EIR defines an isolate as "an artifact or small group of artifacts that appear to reflect a single event, loci, or activity and may lack identifiable context, but has the potential to add important information about a region, culture, or person: (pg. 419). Further, isolates are ineligible for CRHR and NRHP listing, and do not require avoidance or mitigation under CEQA because "their information potential has been exhausted by accurate recording,...or collecting" (419).

Pursuant to State Health and Safety Code (notably Sections 7050.5-7055), should any human remains be inadvertently encountered, all construction activities must cease and the Los Angeles County Coroner, County Department of Regional Planning, and Sheriff Department shall be immediately contacted. If the coroner recognizes the remains to be those of a Native American, the coroner will contact the NAHC, and the NAHC then contacts the most likely descendent regarding the treatment and disposition of the discovered remains. With this legal requirement in place and the previously disturbed nature of the Project site, the Project's potential to significantly impact any human remains would be less than significant.

## References:

- U.S. Department of the Interior, National Park Service, Guidelines for Completing National Register Forms, National Register Bulletin 16, September 30, 1986.
- Envicom Corporation, Live Oak Arcadia Townhomes MND, Phase I Cultural Resources Assessment, Arcadia, California, December 20, 2018.
- The Reynolds Group, Phase I Environmental Site Assessment Report Mobilehome Park and Undeveloped Parcel 4343 and 4372 E. Live Oak Avenue, March 24, 2017.
- California Native American Heritage Commission, <http://nahc.ca.gov/>, accessed March 11, 2019.
- Los Angeles County General Plan Environmental Impact Report, March 2015, [http://planning.lacounty.gov/assets/upl/project/gp\\_2035\\_deir.pdf](http://planning.lacounty.gov/assets/upl/project/gp_2035_deir.pdf), accessed March 11, 2019.
- State of California, Department of Conservation, Division of Mines and Geology, Seismic Hazard Zone Report For The El Monte 7.5-Minute Quadrangle, Los Angeles County, California, 1998, [http://gmw.consrv.ca.gov/SHP/EZRIM/Reports/SHZR/SHZR\\_024\\_EL\\_Monte.pdf](http://gmw.consrv.ca.gov/SHP/EZRIM/Reports/SHZR/SHZR_024_EL_Monte.pdf), accessed April 22, 2019.
- Geotechnologies, Inc. Proposed Residential Development, 4343 and 4371 East Live Oak Avenue, Arcadia, California, Geotechnical Technical Investigation, March 22, 2017.
- Los Angeles County General Plan 2035, Table 9.8 of the General Plan Chapter 9: Conservation and Natural Resources Element.



**6. ENERGY**

	<i>Potentially Significant Impact</i>	<i>Less Than Significant Impact with Mitigation Incorporated</i>	<i>Less Than Significant Impact</i>	<i>No Impact</i>
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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?**

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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**Less Than Significant Impact.** As a new development, the Project would be required to comply with the Los Angeles County Green Building Code as well as the applicable version of the California Code of Regulations Title 24, Part 6 effective at the time building permit applications are submitted. It is an infill development that would replace existing mobilehomes with new residential structures, with a net increase of 30 residential units over the existing 56 mobilehome spaces that are provided on the site. The proposed infill development’s new residential structures would be required to be built to comply with efficiency regulations of the applicable State and County efficiency standards effective at the time building permits applications are submitted. Such standards require incorporation of efficiency features including but not limited to structural efficiency, appliances and lighting, heating and air conditioning, provision of electric vehicle (ev) charging equipment and/or readiness for such equipment, water fixtures and water efficient landscaping. The proposed new residential structures include one building specifically designed for an optional rooftop solar panel array installation that may provide future onsite renewable energy generation to supplement electrical energy demand. For building permit applications submitted on or after January 1, 2020, pursuant to the California Code of Regulations Title 24, Part 6, (2019 Building Energy Efficiency Standards) Section 150.1(c)14 “All low-rise residential buildings shall have a photovoltaic (PV) system”. Therefore, the Project would not involve the inefficient use of energy resources, and potential impacts would be less than significant.

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

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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**No Impact.** As a new development, the Project would be required to comply with the Los Angeles County Green Building Code, as well as the California Code of Regulations Title 24, Part 6, (2016 Building Energy Efficiency Standards). For building permit applications submitted on or after January 1, 2020, the updated California Code of Regulations Title 24, Part 6, (2019 Building Energy Efficiency Standards) would apply. Consequently, no conflicts with the applicable State or County building standards for efficiency would occur. No impact is anticipated.

## 7. GEOLOGY AND SOILS

	<i>Potentially Significant Impact</i>	<i>Less Than Significant Impact with Mitigation Incorporated</i>	<i>Less Than Significant Impact</i>	<i>No Impact</i>
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Would the project:

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

<p>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 active fault trace? Refer to Division of Mines and Geology Special Publication 42.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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**Less Than Significant Impact.** Surface rupture is defined as displacement that occurs along the surface trace of the causative fault during an earthquake. As reported by the Geotechnical Engineering Investigation for the site performed by Geotechnologies, Inc.,<sup>14</sup> **Appendix D**, the subject site is not located within an Alquist-Priolo Earthquake Fault Zone, and no known active or potentially active faults underlie the subject site. Based on these considerations, the potential for surface ground rupture at the subject site is considered low. The Project would not exacerbate or increase the risk of rupture of a known earthquake fault, and therefore, potential impacts would be less than significant.

<p>ii) Strong seismic ground shaking?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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**Less Than Significant Impact.** According to the Project’s Geotechnical Engineering Investigation, the primary geologic hazard at the site is moderate to strong ground motion (acceleration) caused by an earthquake on any of the local or regional faults. Therefore, during the life of the proposed structures, the property could experience moderate to occasionally high ground shaking from local or regional faults. Design and construction in accordance with the current California Building Code (CBC) requirements is anticipated to address issues related to potential ground shaking at the site. The Project would not increase the likelihood, or magnitude of future earthquakes in the area. Consequently, potential impacts related to strong seismic ground shaking would be less than significant.

<p>iii) Seismic-related ground failure, including liquefaction and lateral spreading?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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**Less Than Significant Impact.** Liquefaction is a phenomenon in which saturated silty to cohesionless soils below the groundwater table are subject to a temporary loss of strength due to the buildup of excess pore pressure during cyclic loading conditions such as those induced by an earthquake. Liquefaction-related effects include loss of bearing strength, amplified ground oscillations, lateral spreading, and flow failures.

The Seismic Hazards Map for the El Monte 7.5-Minute Quadrangle (CDMG, 1999), does not identify the site as potentially liquefiable. As reported in the Project’s Geotechnical Engineering Investigation, a site-specific

<sup>14</sup> Geotechnologies, Inc., Geotechnical Engineering Investigation, March 22, 2017. Pg. 3.

liquefaction analysis was performed, which determined that the potential for liquefaction at the site is considered to be remote. The Project would not exacerbate or increase the likelihood of liquefaction effects, and therefore, potential seismic-related ground failure, including liquefaction and lateral spreading impacts would be less than significant.

iv) Landslides?

**Less Than Significant Impact.** The Project site as well as the surrounding vicinity is relatively flat. The probability of seismically-induced landslides occurring on the site is considered to be low due to the general lack of elevation difference across, or adjacent to, the site. The Project would not increase the likelihood or severity of landslide impacts. Therefore, potential landslide impacts would be less than significant.

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

**Less Than Significant Impact.** The Project site is relatively flat and already developed with structures and paving. During construction, temporary soil erosion of exposed soils could occur during rain events. During construction, the Project would be required to prepare and implement a Stormwater Pollution Prevention Plan (SWPPP) as required by State Water Resources Control Board. A SWPPP would identify applicable best management practices (BMPs) such as sand bags and silt fences to minimize potential erosion or sedimentation impacts. To address potential erosion impacts during operations, the Project designs include a Low Impact Development Plan (LID), consisting of stormwater pretreatment structures, dry wells, and stormwater detention structures to ensure that post development runoff volumes would not exceed the predevelopment peak flow.

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

**Less Than Significant Impact.** The Geotechnical Investigation prepared for the Project found that geologic materials underlying the site consist of fill soil and alluvium. Fill soil consists of silty sand to sandy silt that is dark brown in color, and is moist, medium dense, stiff and fine grained. The fill was encountered in the exploratory excavations to depths of up to 5 feet below the existing site grade. Alluvial soils underlie the fill and consist of interlayered mixtures of sandy silt to silty sand and sand with cobbles.<sup>15</sup>

The Geotechnical Investigation includes recommendations for removal of existing fill and surface soils, over excavation, and recompaction as controlled fill prior to foundation excavation. The Geotechnical Investigation concluded that provided the recommendations presented in the report are followed, the proposed development will be safe for its intended use against hazard from landsliding, settlement or slippage. The proposed development will have no adverse effect on the stability of the site of adjoining properties.<sup>16</sup> Prior to development, the Project would be required to provide a geotechnical study for review and approval by the County, and to comply with the requirements of the approved geotechnical report including final recommendations for removal and recompaction of the fill and alluvial materials. Therefore, the Project's potential impacts regarding unstable soil would be less than significant.

<sup>15</sup> Geotechnologies, Inc., Geotechnical Engineering Investigation, March 22, 2017. Pg. 3.  
<sup>16</sup> Geotechnologies, Inc., Geotechnical Engineering Investigation, March 22, 2017. Pg. 10.

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

**Less Than Significant Impact.** The Geotechnical Investigation prepared for the Project found that the onsite geologic materials are in the low expansion range, with an Expansion Index of 25 to 28 for representative bulk samples. Recommended reinforcing is provided in the Geotechnical Investigation report. Prior to development, the Project would be required to provide a geotechnical study for review and approval by the County, and to comply with the requirements of the approved geotechnical report including final recommendations for removal and recompaction of the fill and alluvial materials. The proposed development will have no adverse effect on the stability of the site of adjoining properties. Consequently, Project impacts related to expansive soils would be less than significant.

**e) Have soils incapable of adequately supporting the use of onsite wastewater treatment systems where sewers are not available for the disposal of wastewater?**

**No Impact.** The Project does not propose to use septic tanks or other onsite wastewater treatment systems. Wastewater flow from the Project would discharge to existing County sewer lines. Therefore, the Project would have no impact regarding soil suitability for wastewater disposal.

**f) Conflict with the Hillside Management Area Ordinance (L.A. County Code, Title 22, Ch. 22.104)?**

**No Impact.** The Project site is not within a designated Hillside Management Area or hillside area. The Project would have no impact regarding conflicts with the Hillside Management Area Ordinance.

**References:**

- Geotechnologies, Inc., Geotechnical Engineering Investigation, March 22, 2017.



## 8. GREENHOUSE GAS EMISSIONS

	<i>Potentially Significant Impact</i>	<i>Less Than Significant Impact with Mitigation Incorporated</i>	<i>Less Than Significant Impact</i>	<i>No Impact</i>
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Would the project:

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

**Less Than Significant Impact.** Greenhouse gases (GHG), role in trapping heat near the surface of the earth) emitted by human activity are implicated in global climate change, commonly referred to as global warming. These greenhouse gases contribute to an increase in the temperature of the earth’s atmosphere by transparency to short wavelength visible sunlight, but near opacity to outgoing terrestrial long wavelength heat radiation in some parts of the infrared spectrum. The principal GHGs are carbon dioxide, methane, nitrous oxide, ozone, and water vapor. The CEQA Guidelines defines the following as GHGs: carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), sulfur hexafluoride (SF<sub>6</sub>), perfluorocarbons (PFCs), and hydrofluorocarbons (HFCs).

Fossil fuel use in the transportation sector (on-road motor vehicles, off-highway mobile sources and aircraft) is the single largest source of GHG emissions, accounting for half of all emissions globally. Energy use associated with industrial and commercial land uses contribute approximately one quarter of global GHG emissions.

State Assembly Bill (AB) 32, the Global Warming Solutions Act of 2006, established broad and wide-ranging mandatory provisions and dramatic GHG reduction targets within specified time frames, including a requirement that California’s GHG emissions be reduced to 1990 levels by 2020. State Senate Bill (SB) 97 required the CEQA Guidelines be updated to include guidance for evaluation of GHG emissions impacts.

Because the warming potential of the identified GHGs differ, GHG emissions are typically expressed in terms of carbon dioxide equivalents (CO<sub>2</sub>e), providing a common expression for the combined volume and warming potential of the GHGs generated by a particular emitter. The total GHG emissions from individual sources are generally reported in metric tons (MT) and expressed as metric tons of carbon dioxide equivalents (MTCO<sub>2</sub>e).

The Community Climate Action Plan (CCAP), which was adopted in 2015, describes the County’s plan to reduce the impacts of climate change by reducing GHG emissions from community activities in the unincorporated areas of Los Angeles County by at least 11% below 2010 levels by 2020. The CCAP describes the County’s plan for achieving this goal, including specific actions for each of the major emissions sectors, and provides details on the 2010 and projected 2020 emissions in the unincorporated areas.

State CEQA guidelines specify that CEQA project evaluation of GHG emissions can “tier off” a programmatic analysis of GHG emissions, provided that the programmatic analysis (or climate action plan) meets requirements specified in State CEQA Guidelines Section 15183.5. The CCAP meets those requirements. The CCAP states:

“Tiering from the General Plan EIR potentially eliminates the need to prepare a quantitative assessment of project level GHG emissions. Rather, Project-specific environmental documents that rely on the CCAP can qualitatively evaluate GHG impacts by identifying all

applicable CCAP actions and describing how those actions have been incorporated into the project design and/or identified as mitigation. This type of “tiered” analysis can reduce project costs and streamline the County permit process.” And “projects that demonstrate consistency with applicable CCAP actions can be determined to have a less than significant cumulative impact on GHG emissions and climate change (notwithstanding substantial evidence that warrants a more detailed review of project-level GHG emissions).”

Therefore, the project’s GHG emissions impact determination relies mainly on an evaluation of consistency with CCAP, which is a component of the County’s General Plan (2015). While a qualitative analysis of the Project’s consistency with CCAP is sufficient for a significance determination, a quantitative disclosure of the Project’s estimated GHG emissions is also provided.

The Project includes several design features that would support GHG emissions reduction strategies as set for in the CCAP. Specific design features in support of County Initiatives are listed below. As shown below, the Project would comply with state and local requirements and therefore be consistent with the CCAP.

- **Green Building and Energy:** All proposed residential units would be solar-ready pursuant to California Residential Code<sup>17</sup> Section U103 and 2016 Building Energy Efficiency Standards,<sup>18</sup> Section 110.10, allowing for the future installation of solar roof panels. For building permit applications submitted on or after January 1, 2020, pursuant to the California Code of Regulations Title 24, Part 6, (2019 Building Energy Efficiency Standards) Section 150.1(c)14 “All low-rise residential buildings shall have a photovoltaic (PV) system”. Additionally, proposed residential units would replace older mobile home units with new construction that would meet or exceed energy efficiency requirements of the Green Building Code, and include installation of energy-efficient appliances.
- **Land Use and Transportation:** The Project is designed with pedestrian walkways throughout the site that connect to the public sidewalks along Live Oak and Mayflower Avenues. An existing Class II bike lane on Mayflower Avenue will remain in place. The bike lane will be modified with dashed striping at the project entrance to indicate a vehicle turning area. As part of the design, the Project would retain a bus stop area at the roadway frontage of Live Oak Avenue.
- **Water Conservation and Wastewater:** The Project’s landscaping would include native and non-native drought-tolerant specimens. Interior plumbing would utilize low-flow fixtures. The Project would provide stormwater capture and treatment features in compliance with Low Impact Development (LID) requirements, including underground stormwater storage structures, and drywells to allow infiltration of stormwater onsite.
- **Water Reduction, Reuse, and Recycling:** The Project would comply with conservation waste recycling requirements, diverting construction waste from area landfills.
- **Land Conservation and Tree Planting:** The Project includes a landscaping plan and plant palette for the design and placement of new vegetation and trees on the site. The landscaping plan would comply with the current California water-efficient landscaping ordinance for drought-tolerance.

On December 5, 2008 the SCAQMD Governing Board adopted a staff proposal for an interim quantitative GHG significance threshold for industrial projects where the SCAQMD is the lead agency<sup>19</sup> (e.g., stationary source permit projects, rules, plans, etc.) of 10,000 MTCO<sub>2e</sub>/year. The SCAQMD Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold,<sup>20</sup> dated October 2008 also included a

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<sup>17</sup> California Residential Code. Section U103.

<sup>18</sup> California Energy Commission, 2016 Building Energy Efficiency Standards, June 2015.

<sup>19</sup> South Coast Air Quality Management District, Greenhouse Gases (GHG), Accessed at <http://www.aqmd.gov/home.rules-compliance/ceqa/air-quality-analysis-handbook/ghg-significance-thresholds> on December 3, 2018.

<sup>20</sup> South Coast Air Quality Management District, Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold, October 2008.

recommendation for establishing an interim GHG significance threshold of 3,000 MTCO<sub>2</sub>e/year for residential and commercial projects in addition to the 10,000 MTCO<sub>2</sub>e/year threshold for industrial facilities. The policy objective of staff's recommended interim GHG significance threshold proposal was to achieve an emission capture rate of 90 percent of all new or modified stationary source projects to address the long-term adverse impacts associated with global climate change. A 90 percent emission capture rate means that 90 percent of total emissions from all new or modified stationary source projects would be subject to some type of CEQA analysis.

In September 2010, with regard to numerical GHG significance thresholds for residential and commercial uses, the SCAQMD staff presented the GHG CEQA Significance Threshold Stakeholder Working Group #15 with recommendations for two options for significance screening levels of GHG emissions for lead agencies to choose from to determine significance of non-industrial projects.<sup>21</sup> The first option was to use separate screening thresholds for residential, commercial, and mixed use projects, with a numerical threshold of 3,500 MTCO<sub>2</sub>e/year for residential projects. The second option was to use one screening threshold of 3,000 MTCO<sub>2</sub>e/year for residential, commercial, and mixed use projects.

The California Air Pollution Control Officers Association (CAPCOA) has suggested that a quantitative threshold option that is designed to capture projects that represent approximately 90 percent of GHG emissions from new projects, and exclude smaller projects (less than 50 units) that contribute a relatively small fraction of the cumulative statewide GHG emissions.<sup>22</sup>

The SCAQMD's proposed screening level options of 3,000 MTCO<sub>2</sub>e per year for residential and commercial projects, or 3,500 MTCO<sub>2</sub>e per year for residential projects would meet CAPCOA's intent for the suggested quantitative threshold option. Given the lack of a formally adopted numerical significance threshold applicable to this project, SCAQMD's proposed screening level of 3,000 MTCO<sub>2</sub>e is used to provide a quantitative disclosure of the Project's estimated GHG emissions. The Project's GHG emissions were estimated using CalEEMod.2016.3.2 emissions estimation model provided by SCAQMD. The CalEEMod output is provided in Appendix A.

### **Construction Emissions**

During construction, demolition, use of heavy equipment, disposal of construction waste, and application of various construction materials (paint, asphalt, etc.) would result in the short-term generation of GHG emissions. The Project's construction-related GHG emissions were modeled using CalEEMod. The estimated construction-related GHG emissions generated over the full duration of construction activities would be 507 MTCO<sub>2</sub>e, which would be well within the 3,000 MT screening threshold.

The SCAQMD GHG emissions analysis policy for construction activities recommends amortization of emissions over a 30-year project lifetime to evaluate significance on an annual basis. Based on the total construction period emissions, the Project's 30-year annual amortized GHG emissions would be approximately 17 MTCO<sub>2</sub>e. This amortized amount is added to the operations annual emissions, evaluated below, to determine whether the Project's annual GHG emissions would remain below a level of significance.

### **Operational Emissions**

As a new development, the Project would be required to comply with the Los Angeles County Green Building Code as discussed in Section 6, Energy. It is an infill development that would replace existing mobilehomes with new residential structures., with a net increase of 30 residential units over the existing 56 mobilehome spaces that are provided on-site. The proposed infill development's new residential structures would be

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<sup>21</sup> South Coast Air Quality Management District, Minutes for the GHG CEQA Significance Threshold Stakeholder Working Group #15, September 28, 2010.

<sup>22</sup> California Air Pollution Control Officers Association (CAPCOA), CEQA and Climate Change white paper, January 2008.

required to be built to comply with efficiency regulations of the most current Green Building code, and therefore would not involve the inefficient use of energy resources. The proposed new residential structures include one building specifically designed for an optional rooftop solar panel array installation that may provide future onsite renewable energy generation to supplement electrical energy demand. For building permit applications submitted on or after January 1, 2020, pursuant to the California Code of Regulations Title 24, Part 6, (2019 Building Energy Efficiency Standards) Section 150.1(c)14 “All low-rise residential buildings shall have a photovoltaic (PV) system”.

During operations, the majority of GHG emissions would result from mobile emissions (vehicle travel) as modeled using CalEEMod. Although the Project proposes an infill development that would replace existing uses that generate their own GHG emissions; this analysis does not consider any “credit” for the removal of the existing land uses. Therefore, this analysis conservatively overstates impacts.

As shown in **Table 8-1, Greenhouse Gas Emissions**, the Project’s operational GHG emissions are estimated to be approximately 1,025.4 MTCO<sub>2</sub>e annually with the majority of these associated with mobile sources. Adding the amortized construction emissions of approximately 17 MTCO<sub>2</sub>e, to the operational emissions, the Project’s annual GHG emissions total would be approximately 1,042.4 MTCO<sub>2</sub>e, which is under the more conservative suggested screening threshold for residential projects of 3,000 MTCO<sub>2</sub>e per year and the impact is less than significant.

**Table 8-1  
Greenhouse Gas Emissions**

<b>Generation Source</b>	<b>MTCO<sub>2</sub>e/year <sup>(a)</sup></b>
Area Sources	1.5
Energy Utilization	218.9
Mobile Source	741.6
Solid Waste Generation	19.9
Water Consumption	43.5
<b>Total Operational Emissions</b>	<b>1,025.4</b>
Annualized Construction	17
<b>Total Project GHG Emissions</b>	<b>1,042.4</b>
Source: CalEEMod.2016.3.2 Output in Appendix A.	
<sup>(a)</sup> Reported emissions are gross values that do not incorporate reductions from removal of existing uses. Actual project net increases would be substantially lower.	

The Project’s GHG emissions would fall below the more conservative suggested screening threshold for residential projects of 3,000 MTCO<sub>2</sub>e per year,<sup>23</sup> and impacts would be less than significant. Additionally, if building permit applications for the Project are submitted on or after January 1, 2020, pursuant to the California Code of Regulations Title 24, Part 6, (2019 Building Energy Efficiency Standards) Section 150.1(c)14 “All low-rise residential buildings shall have a photovoltaic (PV) system”, which would further reduce GHG emissions from energy sources and therefore reduce the Project’s total GHG emissions. Overall, the Project would not result in significant impacts regarding GHG emissions during construction or operations. As such, no mitigation measures would be required.

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

<sup>23</sup> South Coast Air Quality Management District, Minutes for the GHG CEQA Significance Threshold Stakeholder Working Group #15, September 28, 2010.

**Less Than Significant Impact.** In 2006, California passed the California Global Warming Solutions Act of 2006 (AB 32; California Health and Safety Code Division 25.5, Sections 38500, et seq.), which requires the California Air Resources Board (CARB) to design and implement emission limits, regulations, and other measures, such that feasible and cost-effective statewide greenhouse gas emissions are reduced to 1990 levels by 2020 (representing an approximate 25 percent reduction in emissions).

Title 24, Part 6 of the California Code of Regulations regulates the design of building shells and building components. The standards are updated periodically to allow for consideration and possible incorporation of new energy efficiency technologies and methods. The California Energy Commission (CEC) adopted the 2016 Building Energy Efficiency Standards (2016 Building Standards), effective January 1, 2017.<sup>24</sup> The 2019 Building Standards are to go into effect January 1, 2020.

In addition, in 2008, the California Building Standards Commission adopted the nation's first green building standards, which have been periodically amended. California Green Building Standards Code (Part 11 of Title 24), referred to as CALGreen, establish voluntary and mandatory standards for construction projects that relate to sustainable site development, energy efficiency, water conservation, material conservation, and interior air quality. The currently effective CALGreen is the 2016 standards.

The Project would replace existing mobilehomes with new residential structures that would meet or exceed current building codes and mandatory CALGreen requirements for efficiency, to address GHG emissions reduction goals. Additionally, one of the proposed townhome structures has been designed to allow the optional installation of rooftop solar panels to supplement electrical energy supplies. For building permit applications submitted on or after January 1, 2020, pursuant to the California Code of Regulations Title 24, Part 6, (2019 Building Energy Efficiency Standards) Section 150.1(c)14 "All low-rise residential buildings shall have a photovoltaic (PV) system". As the Project proposes to redevelop an infill site with multi-family residential structures that meet current standards of efficiency, the Project would not conflict with policies or regulations aimed at reducing greenhouse gas. Impacts would be less than significant.

#### **References:**

- California Air Pollution Control Officers Association (CAPCOA), CEQA and Climate Change white paper, January 2008.
- South Coast Air Quality Management District, 2008. Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold, Appendix E, p. 2-6. Available at: [http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-\(ghg\)-ceqa-significance-thresholds/ghgattachmente.pdf?sfvrsn=2](http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/ghgattachmente.pdf?sfvrsn=2), accessed May 2018.
- South Coast Air Quality Management District, Minutes for the GHG CEQA Significance Threshold Stakeholder Working Group #15, September 28, 2010. Available at: [http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-\(ghg\)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-minutes.pdf](http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-minutes.pdf), accessed February 23, 2019.
- California Code of Regulations Title 24, Part 2.5, 2016 California Residential Code, Section U103.
- California Energy Commission, 2016 Building Energy Efficiency Standards, June 2015.

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<sup>24</sup> According to the California Energy Commission website accessed on February 4, 2019, at <https://www.energy.ca.gov/title24/>, the Building Energy Efficiency Program Year 2019 standards would become effective January 1, 2020.



**9. HAZARDS AND HAZARDOUS MATERIALS**

	<i>Less Than Significant Impact with Mitigation Incorporated</i>	<i>Less Than Significant Impact</i>	<i>No Impact</i>
<i>Potentially Significant Impact</i>			

Would the project:

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

**Less Than Significant Impact.** The proposed residential development would not be associated with routine transport, storage, production, use, or disposal of hazardous materials. Onsite use of common household cleaners, or other chemicals associated with landscaping or other maintenance activities would not be considered to represent a significant hazard to the public. During construction, fuels or other potentially hazardous construction related materials could be used onsite, but due to the temporary nature of the construction activities, such materials would not be routinely transported to, or stored on the Project site. Therefore, potential impacts related to routine transport, storage, production, use, or disposal of hazardous materials would be less than significant.

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

**Less Than Significant Impact.** On February 8, 2017, a Phase I Environmental Site Assessment (ESA) was conducted for the proposed Project (**Appendix E**). Based on the Project’s Phase I ESA report,<sup>25</sup> no adverse environmental conditions were observed, nor were any discovered in historical research of the property addresses.

The ESA indicates that two former leaking underground storage tank (LUST) cases associated with a gas station previously located at 4332 E. Live Oak Avenue, immediately south of the Project site, were classified as “soils only” cases, which indicates soil remediation is needed, but there is no concern that contamination would have spread to the groundwater or other areas. Both cases received regulatory closure, one in 1999 and one in 2005. As such, the Project’s ESA concludes that the 4332 E. Live Oak site is not a concern to the subject property. Other sites of previous or current hazardous material conditions listed in the Environmental Radius Map Report are not of concern to the proposed Project due to distance and direction from the Project site, and/or previously documented regulatory closure. These sites consist of four locations at distances of between 351 feet and one-eighth mile to the west and southwest of the Project site, and 7 locations between one-eighth mile and one-quarter mile to the east and northeast of the site, which are at lower elevations than the Project site, and one location and one area of concern at approximately one-quarter mile to north and northeast of the Project that are at higher elevations. The closest of these locations is the property at 4332 E. Live Oak Avenue, which was previously occupied by a gas station and the subject of two LUST cleanup actions, that is currently being redeveloped with multi-family housing townhomes, further indicating acknowledgement by regulatory agencies of the adequacy of cleanup efforts to obtain closure status.

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<sup>25</sup> The Reynolds Group, Phase I Environmental Site Assessment Report Mobilehome Park and Undeveloped Parcel 4343 and 4372 E. Live Oak Avenue, March 24, 2017.

A solid waste disposal site, identified as Valley Park Corp Dump that ceased operations December 31, 1961<sup>26</sup> was located at 4414 East Live Oak Avenue, approximately 325 feet southeast of the Project site, and is currently occupied by a storage facility. Pursuant to the County’s Building and Safety Code, Section 110.3, “Permits shall not be issued for buildings or structures regulated by this Code within 1,000 feet (304.8 m) of fills containing rubbish or other decomposable materials unless the fill is isolated by approved natural or artificial protective systems or unless designed according to the recommendation containing in a report prepared by a licensed civil engineer...” To address potential concerns of subsurface methane migration from the closed landfill to the proposed Project site, the applicant’s subconsultant, The Reynolds Group, compiled additional information regarding the closed landfill to characterize the existing conditions. The additional information included a letter from the County Department of Public Works, dated June 8, 2005, approving the “Operation and Maintenance Manual and Contingency Plan for Landfill Gas Control System for the former Valley Park Corps Dump site, which was occupied by a Pick-a-Part facility at that time. The landfill gas control system was intended to protect residential properties along Lynd Avenue that are located adjacent to the property line of the former landfill. Those residential properties lie between the former landfill site and the proposed Project site. Prior to the proposal to provide a landfill gas control system, methane surveys performed at the former landfill site showed no methane in soil vapor at the site. Los Angeles Department of Public Works (LADPW) has performed quarterly monitoring at the former landfill site since at least 2012. Recent monitoring data through 2018 have documented that methane levels at the former landfill site are predominantly 0% of the lower explosive limit (LEL).<sup>27</sup> A soil vapor investigation conducted for a Phase I and II Site Assessment (dated November 13, 2015), and a Limited II Site Assessment (dated December 15, 2017) of a property proposed for redevelopment at 4332 E. Live Oak Avenue,<sup>28</sup> which is also located between the former landfill site and the proposed Project site, confirmed “non-detect” methane concentrations at that property.<sup>29</sup>

As the historical research and reconnaissance of the Project site revealed no recognized environmental conditions (RECs) or evidence of subsurface methane migration in the immediate vicinity, potential hazards due to reasonably foreseeable upset and accident conditions that could involve release of hazardous materials into the environment, including soil vapor migration of methane from the closed Valley Park Corp Dump, would not be likely.

Pursuant to the existing regulatory requirements of the County’s Building and Safety Code, Section 110.3, the Project would be required to show that the landfill is adequately isolated from the Project site by an existing soil vapor protective system, to the satisfaction of the Department of Public Works during the building permit process, or show that the Project is designed according to recommendations of a licensed civil engineer. Required compliance with Section 110.3 would ensure that the project’s potential to cause environmental impacts due to reasonably foreseeable upset and accident conditions involving the release of hazardous materials or waste, including subsurface migration of methane from the closed landfill site, would be less than significant.

**c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of sensitive land uses?**                       

<sup>26</sup> California Department of Resources Recycling and Recovery (CalRecycle), SWIS Facility Detail Valley Park Corp Dump (19-AA-0779), accessed at <https://www2.calrecycle.ca.gov/swfacilities/Directory/19-AA-0779> on November 30, 2018.  
<sup>27</sup> CalRecycle. Inspection Detail, Valley Park Corp Dump (19-AA-0779), Available at: <https://www2.calrecycle.ca.gov/swfacilities/Directory/19-AA-0779/Inspection/442367>. Accessed May 28, 2019.  
<sup>28</sup> Los Angeles Department of Regional Planning, Project No. 2016000030/ Vesting Tentative Tract Map 74149/ Conditional Use Permit 2016001389/ Environmental Assessment 2016001381. December 22, 2016.  
<sup>29</sup> Eurofins Calscience, Inc., Analytical Report for Stantec, Project 185803533, April 27, 2017.

**Less Than Significant Impact.** The Project proposed to develop a multi-family residential complex of townhomes, which would not be expected to emit or handle substantial hazardous or acutely hazardous materials, substances, or waste. As such, the potential for the Project to emit such materials within one-quarter mile of a sensitive land use would be less than significant.

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

**No Impact.** Based on the Project’s Phase I ESA report, no adverse environmental conditions were discovered in historical research of the property addresses, and no recognized environmental conditions (RECs) were identified on the Project site. In preparation of the Project’s Phase I ESA, the following regulatory files were reviewed for facilities within the Property vicinity that are currently under review, management, or notification by a regulatory agency:

- The United States Environmental Protection Agency (EPA) National Priority List (NPL) and Delisted NPLs
- Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) and CERCLIS No Further Remedial Action Planned (NFRAP)
- Resource Conservation and Recovery Act (RCRIS)
- Institutional and Engineering Controls (IECs)
- Emergency Response Notification System (ERNS)
- Consent
- Records of Decision (RODs)
- Mines
- State Hazardous Waste Sites (SHWS)
- Groundwater Contamination Inventory (GWCI)
- Solid Waste Facilities/Landfills (SWF/LF)
- Underground Storage Tanks (USTs) and Tribal USTs
- Leaking Underground Storage Tanks (LUST) and Tribal LUST
- Above Ground Storage Tanks (ASTs)
- Spill, Leaks, Investigations, and Clean-Ups (SLIC)
- Land Use Controls (AUL)
- Voluntary Cleanup Program (VCP)
- Dry Cleaners
- Brownfields
- National Pollutant Discharge Elimination System (NPDES)
- Airs

Descriptions of the aforementioned databases and search distances are provided in the Project’s Phase I ESA in Appendix E. Based on a review of these databases, the Project site is not included on a list of hazardous materials sites, and the Project would have no impact related to this issue.

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

**No Impact.** The El Monte Airport, located at 4233 Santa Anita Avenue in El Monte, is approximately 2 miles southwest of the Project site and is the closest airport to the site. El Monte Airport is under the jurisdiction of the County of Los Angeles Airport Land Use Commission. The Project site is not within an approach or departure flight corridor for the El Monte Airport, and consequently would not result in an airport related safety hazard for people in the Project area. The Project would have no impact regarding safety hazards related to proximity to a public airport.

f) Substantially impair implementation of, or physically interfere with, an adopted emergency response plan or emergency evacuation plan?

**Less Than Significant Impact.** The emergency response plan for the unincorporated areas of the County is the Operational Area Emergency Response Plan (OAERP), which is prepared by the County Office of Emergency Management (OEM). The OAERP addresses short and long-term emergency response and recovery capability, and identifies emergency procedures and emergency management routes in Los Angeles County. Based on the General Plan's Disaster Routes Map, the nearest Highway Disaster Route is Live Oak Avenue, which is adjacent to the Project site. Additional nearby disaster routes include Peck Road/Myrtle Avenue, as well as the I-605, I-210, and I-10. The Project would have two separate ingress/egress driveways that access the site from Live Oak Avenue and from Mayflower Avenue. The two driveways would connect to an internal circulation drive and provide vehicular access to all of the proposed townhomes. Project access and roadway widths would comply with County Regional Planning and Fire Department requirements. Therefore, the Project would not impair or physically interfere with the County OAERP or other adopted emergency response or evacuation plan, and thus would have a less than significant impact regarding impairment or interference with an adopted emergency response plan.

g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving fires, because the project is located:

i) within a high fire hazard area with inadequate access?

**No Impact.** The Project site is an infill property located in a flat and urbanized area of the County, which is not within a Very High Fire Hazard Severity Zone, and thus would have no impact regarding exposure of people or structures to significant risk of loss, injury, or death due to wildfire

ii) within an area with inadequate water and pressure to meet fire flow standards?

**No Impact.** The Project site is currently developed and located within a fully urbanized area of the County. The Project would connect to an existing water line that serves the mobilehome park that currently occupies the site. Golden State Water Company is the water purveyor for the Project site and

has provided June 22, 2017<sup>30</sup> and February 27, 2018<sup>31</sup> letters to the Applicant indicating that adequate water distribution is available to serve the Project. The letter from Golden State Water Company also confirms that the water service to the site would meet minimum fire flow and fire hydrant requirements as provided by Section 20.16.060 of the Los Angeles County Water Code. The Project would have no impact regarding inadequate water and pressure to meet fire flow standards.

**iii) within proximity to land uses that have the potential for dangerous fire hazard?**                                                                               

**No Impact.** The Project site is an infill property located in a flat and urbanized area of the County, and is not within a fire hazard area. Surrounding land uses consist of a mix of commercial and residential development. An automobile dismantling facility is located generally south of the Project site but this facility is not identified by local or state agencies as potential fire hazard. A gas station that had previously occupied a property directly south of the Project site has been removed and is being replaced with a multi-family residential complex. The Project site is not located in or near lands that are classified as very high fire hazard severity zones, and would have no impact regarding risks associated with wildfire. Therefore, the Project would have no impact regarding proximity to land uses that have the potential for dangerous fire hazard.

**h) Does the proposed use constitute a potentially dangerous fire hazard?**                                                                               

**No Impact.** The Project proposes to replace an existing mobilehome park with new residential townhomes built to current CBC and Fire Code requirements. The Project site is not located in or near lands that are classified as very high fire hazard severity zones, and would have no impact regarding risks associated with wildfire. The Project would not constitute a potentially dangerous fire hazard. Impacts would be less than significant.

**References:**

- Golden State Water Company, Statement of Water Service for 4343 and 4371 Live Oak Ave. Arcadia, CA, February 27, 2018.
- Golden State Water Company, Statement of Water Service for 4343 and 4371 Live Oak Ave. Arcadia, CA, June 22 2017.
- The Reynolds Group, Phase I Environmental Site Assessment Report Mobilehome Park and Undeveloped Parcel 4343 and 4372 E. Live Oak Avenue, March 24, 2017.
- Los Angeles County Department of Regional Planning, Los Angeles County General Plan 2035, Adopted October 6, 2015. Figure 12.6.

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<sup>30</sup> Golden State Water Company, Statement of Water Service for 4343 Live Oak Ave. Arcadia, CA, June 22 2017.

<sup>31</sup> Golden State Water Company, Statement of Water Service for 4343 and 4371 Live Oak Ave. Arcadia, CA, February 27, 2018.



**10. HYDROLOGY AND WATER QUALITY**

	<i>Less Than Significant</i>			
	<i>Potentially Significant Impact</i>	<i>Impact with Mitigation Incorporated</i>	<i>Less Than Significant Impact</i>	<i>No Impact</i>

Would the project:

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

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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**Less Than Significant Impact.** Under existing conditions, storm water within the Project vicinity is conveyed by the existing storm drain system to the Rio Hondo River, which enters the Los Angeles River and ultimately discharges to the Pacific Ocean. The Project would be required to prepare and implement a Storm Water Pollution Protection Plan (SWPPP), which would include Best Management Practices (BMPs) to control erosion of exposed soils and sediment transport off the site by stormwater during construction. The SWPPP would also be required to include BMPs to protect the quality of surface water runoff by including measures to prevent potential contaminants associated with construction activities from leaving the site via stormwater. These would include proper storage, use, and cleanup of potential contaminants such as fuels and oils, paints and solvents, concrete washout residue, and trash.

During operations, the project would be required to comply with the County’s Low Impact Development (LID) requirements. According to Section 7.1 of the Los Angeles County Low Impact Development (LID) Standards<sup>32</sup> “Stormwater quality control measures are required to augment site design principles and source control measures to reduce the volume of stormwater runoff and potential pollution loads in stormwater runoff to the maximum extent practicable.” Section 7.2 of the County LID Standards states that “In general, all proposed projects must maximize on-site retention of the stormwater quality design volume (SWQDv) through infiltration and/or bioretention.” The Project would incorporate stormwater capture and treatment systems, which are described in the Project’s Preliminary Hydrology & Hydraulics Report<sup>33</sup> (Hydrology Report), dated May 14, 2018, provided as **Appendix F** of this document.

In the existing condition of the site, stormwater within the mobilehome park portion of the site sheet flows to gutters centered in the middle of the private streets and discharges at two existing entrances along Live Oak Avenue and one existing entrance along Mayflower Avenue where the runoff enters two existing catch basins downstream to the west of the property. The existing vacant parcel of the Project site sheet flows south towards the driveway entrance on Live Oak avenue and enters the street where it ultimately discharges into the existing catch basin located southwest of the property.

In compliance with the County’s LID Standards, the project would direct onsite stormwater to the proposed onsite stormwater treatment and runoff management systems, consisting of stormwater pre-treatment structures, deep drywells to allow infiltration, and underground stormwater detention structures. The project would provide two separate stormwater treatment and runoff management systems to be located beneath each project driveway entrance near the Live Oak Avenue and Mayflower Avenue.

Onsite runoff that exceeds the stormwater treatment volume near Live Oak Avenue will overflow to the street via proposed curb drains which would ultimately relay the runoff to the existing catch basins southwest of the

<sup>32</sup> County of Los Angeles Department of Public Works, Low Impact Development Standards Manual, February 2014.

<sup>33</sup> Kimley-Horn, Preliminary Hydrology & Hydraulics Report TR 80294 Live Oak – Arcadia 4343 and 4371 East Live Oak Avenue Arcadia, CA 91006, May 14, 2018.

property. Onsite runoff that exceeds the stormwater treatment volume near Mayflower Avenue will be conveyed to the existing storm drain along Mayflower Avenue. The proposed pretreatment structures, drywells, and underground detention structures have been designed with adequate capacities for the storm water runoff volumes generated from the 85<sup>th</sup> percentile rainfall to meet the County of Los Angeles LID requirements. Overflow beyond the required treatment volume will be handled by a proposed bypass inlet structure for each drywell. The overflow will enter the bypass structure from the pretreatment structure and then exit via a parkway drain discharging at the curb face, similar to historic drainage patterns of the site.

Development of the Project would be subject to County review and approval of the LID and its proposed drainage and water quality improvements or best management practices (BMPs). Compliance with the approved LID would ensure that County water quality and waste discharge standards are met. The Project would not utilize onsite septic tanks or other features that could contaminate groundwater. Consequently, the Project impacts relative to violation of water quality and waste discharge standards or substantially degrade surface or ground water quality would be less than significant.

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

**Less Than Significant Impact.** The majority of the Project site is currently developed with mobilehomes and paving. According to the Project’s Geotechnical Engineering Investigation,<sup>34</sup> the historic high groundwater level for the site reported by the California Geological Survey Seismic Hazard Evaluation Report 024 (2005) is on the order of 47 feet below grade. A boring conducted onsite for the geotechnical investigation of the site did not encounter groundwater within the 50-foot depth. Los Angeles County water well records for the nearest monitoring well, located approximately one-quarter mile from the site, reported that as of November 2015, the depth to groundwater for that location was 156.5 feet below ground surface.

The Project’s water demand would be provided by the local water distribution system managed by Golden State Water, and no onsite groundwater extraction is proposed by the Project. The Project site does not currently include an infiltration basin for groundwater recharge. The proposed LID features would include dry wells that allow infiltration of a portion of stormwater runoff within the site. As such, the Project would not substantially deplete groundwater or interfere with groundwater recharge, and impacts would be less than significant.

**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?**                                                                               

**Less Than Significant Impact.** There are no streams or other natural drainage channels within the site. In the existing condition, stormwater within the mobilehome park portion of the site sheet flows to ribbon gutters centered in the middle of the private streets and discharges at two existing entrances along Live Oak Avenue and one existing entrance along Mayflower Avenue where the runoff enters two existing catch basins downstream to the west of the property. The proposed Project would include LID features to capture, treat,

<sup>34</sup> Geotechnologies, Inc., Geotechnical Engineering Investigation, Proposed Residential Development 4343 and 4371 East Live Oak Avenue, Arcadia, California, March 22, 2017.

and detain runoff volumes onsite in compliance with County LID requirements. Overflow beyond the required treatment volume will exit the site via a parkway drain discharging at the curb face at Live Oak Avenue or Mayflower Avenue, similar to historic drainage patterns of the site. All flows leaving the site would ultimately be routed to the same 54-inch storm drain line, that currently accommodates existing runoff volumes from the site. The proposed storm water control and quality measures would comply with the County's current LID requirements for stormwater treatment for the 25-year (Q25) and 50-year (Q50) storm event. The Project's Preliminary Hydrology & Hydraulics Report (Appendix F) shows that the proposed development will reduce the overall site's runoff flow rate, and flows leaving the site would ultimately discharge to the existing storm drain system within the surrounding streets. Therefore, the existing storm drain system has adequate capacity for the proposed development, and the Project would not substantially alter the existing drainage pattern resulting in substantial erosion or siltation, and impacts would be less than significant.

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

**Less Than Significant Impact.** The proposed LID features would include stormwater pretreatment structures, dry wells, and underground detention structures to comply with County LID requirements. Overflow beyond the required treatment volume will exit the site via a parkway drain discharging at the curb face, similar to historic drainage patterns of the site. The Project's Preliminary Hydrology & Hydraulics Report (Appendix F) shows that the proposed development will reduce the overall site's runoff flow rate, and flows leaving the site would ultimately discharge to the existing storm drain system within the surrounding streets. As such, the Project would not substantially alter the existing drainage pattern resulting in substantial flooding on- or off-site, and impacts would be less than significant.

**(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?**                       

**Less Than Significant Impact.** The proposed LID features would include stormwater pretreatment structures, dry wells, and underground detention structures to comply with County LID requirements. These required features would have adequate capacity to capture, treat, and detain runoff water generated from the 85<sup>th</sup> percentile rainfall to meet the County of Los Angeles LID requirements. Under existing conditions, there are no stormwater treatment or detention features within the Project site. The Project's Hydrology and Hydraulics Report (Appendix F) indicates that the proposed project would increase the percentage of impermeable surfaces on the site from 81 percent under existing conditions, to approximately 90 percent. However, the proposed installation of stormwater capture and treatment LID features would result in a reduction in runoff volume from the site. As such, the Project would not contribute runoff that would exceed the capacity of existing stormwater drainage systems or provide substantial additional sources of polluted runoff.

**(iv) Impede or redirect flood flows?**                       

**No Impact.** Figure 5.9-3 of the General Plan EIR illustrates locations of flood hazard areas and shows the area surrounding the Project site as outside of any 100-year or 500-year flood hazard. Consequently, the Project would not impede or redirect flood flows.

**d) Conflict with the Los Angeles County Low Impact Development Ordinance (L.A. County Code, Title 12, Ch. 12.84)?**

**No Impact.** As previously discussed, the Project would incorporate a series of drainage and water quality improvements required to comply with the County LID requirements, including pretreatment structures, dry wells, and detention structures. These features would comply with the LID requirements by reducing the volume of stormwater runoff and potential pollution loads in stormwater runoff to the maximum extent practicable, and maximizing on-site retention. Development of the Project would be subject to County review and approval of the LID and its proposed BMPs. Compliance with the approved LID would ensure that County water quality and waste discharge standards are met. Consequently, the Project would not conflict with the County LID.

**e) Use onsite wastewater treatment systems in areas with known geological limitations (e.g. high groundwater) or in close proximity to surface water (including, but not limited to, streams, lakes, and drainage course)?**

**No Impact.** The Project would be located within an infill site and would be served by existing wastewater utilities. No onsite wastewater treatment systems are proposed. Consequently, the Project would not have impacts related to use of onsite wastewater treatment systems.

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

**No Impact.** Figure 5.9-3 of the General Plan EIR illustrates locations of flood hazard areas and shows the area surrounding the Project site as outside of any 100-year or 500-year flood hazard. Therefore, the Project would not risk release of pollutants due to project inundation by flood.

A seiche is a surface wave created when an inland body of water is shaken. A tsunami is a series of ocean waves caused by a sudden displacement of the ocean floor, most often due to earthquakes.

The Project site is located approximately 35 miles inland from the Pacific Ocean, and there are no inland bodies of water in close proximity to the Project. Therefore, the Project site would not be subject to inundation by seiche or tsunami.

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

**Less Than Significant Impact.** Under existing conditions, storm water within the Project vicinity is conveyed by the existing storm drain system to the Rio Hondo River, which enters the Los Angeles River and ultimately discharges to the Pacific Ocean. The Project would be required to prepare and implement a Storm Water Pollution Protection Plan (SWPPP), which would include Best Management Practices (BMPs) to control erosion of exposed soils and sediment transport off the site by stormwater during construction. The SWPPP would also be required to include BMPs to protect the quality of surface water runoff by including measures to prevent potential contaminants associated with construction activities from leaving the site via stormwater. These would include proper storage, use, and cleanup of potential contaminants such as fuels and oils, paints and solvents, concrete washout residue, and trash.

During operations, the project would be required to comply with the County's Low Impact Development (LID) requirements. According to Section 7.1 of the Los Angeles County Low Impact Development (LID) Standards<sup>35</sup> "Stormwater quality control measures are required to augment site design principles and source control measures to reduce the volume of stormwater runoff and potential pollution loads in stormwater runoff to the maximum extent practicable." Section 7.2 of the County LID states that "In general, all proposed projects must maximize on-site retention of the stormwater quality design volume (SWQDv) through infiltration and/or bioretention." The Project would incorporate stormwater capture and treatment systems, which are described in the Project's Preliminary Hydrology & Hydraulics Report<sup>36</sup> (Hydrology Report), dated May 14, 2018, provided as **Appendix F** of this document.

In the existing condition of the site, stormwater within the mobilehome park portion of the site sheet flows to gutters centered in the middle of the private streets and discharges at two existing entrances along Live Oak Avenue and one existing entrance along Mayflower Avenue where the runoff enters two existing catch basins downstream to the west of the property. The existing vacant parcel of the Project site sheet flows south towards the driveway entrance on Live Oak Avenue and enters the street where it ultimately discharges into the existing catch basin located southwest of the property.

In compliance with the County's LID Standards, the project would direct onsite stormwater to the proposed onsite stormwater treatment and runoff management systems, consisting of stormwater pre-treatment structures, deep drywells to allow infiltration, and underground stormwater detention structures. The project would provide two separate stormwater treatment and runoff management systems to be located beneath each project driveway entrance near the Live Oak Avenue and Mayflower Avenue.

Onsite runoff that exceeds the stormwater treatment volume near Live Oak Avenue will overflow to the street via proposed curb drains which would ultimately relay the runoff to the existing catch basins southwest of the property. Onsite runoff that exceeds the stormwater treatment volume near Mayflower Avenue will be conveyed to the existing storm drain along Mayflower Avenue. The proposed pretreatment structures, drywells, and underground detention structures have been designed with adequate capacities for the storm water runoff volumes generated from the 85<sup>th</sup> percentile rainfall to meet the County of Los Angeles LID requirements. Overflow beyond the required treatment volume will be handled by a proposed bypass inlet structure for each drywell. The overflow will enter the bypass structure from the pretreatment structure and then exit via a parkway drain discharging at the curb face, similar to historic drainage patterns of the site.

The Project's water demand would be provided by the local water distribution system managed by Golden State Water, and no onsite groundwater extraction is proposed by the Project. The Project site does not currently include an infiltration basin for groundwater recharge. Therefore, the Project would not conflict with or obstruct implementation of a sustainable groundwater management plan

Development of the Project would be subject to County review and approval of the LID and its proposed drainage and water quality improvements or best management practices (BMPs). Although no below ground garages or basements are proposed, during the required review of the Project site plans by the County, the Public Works Building & Safety Division will determine if any below ground level construction/development on the Project site would be subject to stormwater permitting requiring review by the County's Environmental Programs Division (EPD). Compliance with the approved LID would ensure that County water quality and waste discharge standards are met. Consequently, the Project's potential to conflict with a water quality control plan would be less than significant.

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<sup>35</sup> County of Los Angeles Department of Public Works, Low Impact Development Standards Manual, February 2014.

<sup>36</sup> Kimley-Horn, Preliminary Hydrology & Hydraulics Report TR 80294 Live Oak – Arcadia 4343 and 4371 East Live Oak Avenue Arcadia, CA 91006, May 14, 2018.



**References:**

- County of Los Angeles Department of Public Works, Low Impact Development Standards Manual, February 2014.
- Kimley-Horn, Preliminary Hydrology & Hydraulics Report TR 80294 Live Oak – Arcadia 4343 and 4371 East Live Oak Avenue Arcadia, CA 91006, May 14, 2018.
- Geotechnologies, Inc., Geotechnical Engineering Investigation, Proposed Residential Development 4343 and 4371 East Live Oak Avenue, Arcadia, California, March 22, 2017.
- Los Angeles County Department of Regional Planning, Los Angeles County General Plan 2035, Adopted October 6, 2015. Figure 5.9-3.

**11. LAND USE AND PLANNING**

	<i>Less Than Significant Impact with Mitigation Incorporated</i>	<i>Less Than Significant Impact</i>	<i>No Impact</i>
<i>Potentially Significant Impact</i>			

**Would the project:**

**a) Physically divide an established community?**                                                                               

**No Impact.** Existing uses on the site consist of a mobilehome park and a vacant parcel. Existing land uses surrounding the Project site include a mix of residential and commercial land uses. North and east of the site are predominantly single family residential developments; southeast of the site are single family residential and an automobile dismantling facility; southwest and west of the site are commercial and multi-family residential uses. Immediately south of the Project site, a construction of a multi-family residential development is currently under construction. As proposed the Project would generally be oriented towards Live Oak Avenue, and would be consistent with the use and design of the multi-family structures currently being built south of the Project site. It would also be consistent with the use and design of the approved Santa Anita Village development to be located west of the Project site on Live Oak Avenue and Mayflower Avenue. The existing zoning designation for the Project site is R-3, which allows for apartments, as well as two-family and single-family residential uses. Redeveloping the site as a townhome development would be compatible with the current zoning as well as the surrounding residential uses, and would provide an appropriate transition from existing commercial properties south and west of the site, to single-family developments north and east of the site. The Project would not physically divide an established community.

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

**Less Than Significant Impact.** The County General Plan Land Use Map designates the Project site Residential 30 (H30), which allows for a residential density of 0-30 dwelling units/acre. The purpose of the H30 designation is for single-family residences, two-family residences, and multifamily residences. The Project site is currently zoned R-3 which allows for apartments, as well as two-family and single-family residential uses. The proposed Project would be consistent with the currently designated land use and zoning for the site.

As an infill development that would provide multi-family residential units on a property currently occupied by a vacant lot and a mobilehome park that has operated since 1956, the Project would be consistent with the following Goals and Policies of the General Plan Land Use Element:

- Goal LU 4: Infill development and redevelopment that strengthens and enhances communities.
- Policy LU 4.1: Encourage infill development in urban and suburban areas on vacant, underutilized, and/or brownfield sites.
- Policy LU 9.2: Encourage patterns of development that promote physical activity.
- Goal LU 10: Well-designed and healthy places that support a diversity of built environments.
- Policy LU 10.1: Encourage community outreach and stakeholder agency input early and often in the design of projects.

- Policy LU 10.3: Consider the built environment of the surrounding area and location in the design and scale of new or remodeled buildings, architectural styles, and reflect appropriate features such as massing, materials, color, detailing or ornament.
- Policy LU 10.4: Promote environmentally-sensitive and sustainable design.
- Policy LU 10.5: Encourage the use of distinctive landscaping, signage and other features to define the unique character of districts, neighborhoods or communities, and engender community identity, pride and community interaction.
- Policy LU 10.6: Encourage pedestrian activity through the following:
  - Designing the main entrance of buildings to front the street;
  - Incorporating landscaping features;
  - Limiting masonry walls and parking lots along commercial corridors and other public spaces;
  - Incorporating street furniture, signage, and public events and activities; and
  - Using wayfinding strategies to highlight community points of interest.
- Policy LU 10.12: Discourage gated entry subdivisions (“gated communities”) to improve neighborhood access and circulation, improve emergency access, and encourage social cohesion.

The proposed development will result in a net gain of 30 housing units on an underutilized site and proposes a voluntary set aside of five affordable units. In addition, the project will add multi-family housing units to an area consisting predominately of single family homes. As such, the proposed development of new townhomes would also be consistent with the following goals and policies of the County’s adopted Housing Element (2008):

- Goal 1. A wide range of housing types in sufficient supply to meet the needs of current and future residents, particularly persons with special needs, including but not limited to low income households, seniors, persons with disabilities, single-parent households, the homeless and at-risk homeless, and farmworkers.
- Policy 1.1: Make available through land use planning and zoning an adequate inventory of vacant and underutilized sites to accommodate the County’s Regional Housing Needs Assessment (RHNA) allocation.
- Goal 3. A housing supply that ranges broadly in housing costs to enable all households, regardless of income, to secure adequate housing.
- Policy 3.1: Promote mixed income neighborhoods and a diversity of housing types throughout the unincorporated areas to increase housing choices for all economic segments of the population.
- Policy 3.2: Incorporate advances in energy and cost-saving technologies into housing design, construction, operation, and maintenance.
- Goal 6. An adequate supply of housing preserved and maintained in sound condition, located within safe and decent neighborhoods.

Therefore, the Project would not result in a significant environmental impact due to a conflict with any County land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect.

**c) Conflict with the goals and policies of the General Plan related to Hillside Management Areas or Significant Ecological Areas?**                       

**No Impact.** The Project site is not within a County designated Hillside Management Area or Significant Ecological Area. Consequently, the Project would not conflict with these plans.

**12. MINERAL RESOURCES**

	<i>Less Than Significant Impact with Mitigation Incorporated</i>	<i>Less Than Significant Impact</i>	<i>No Impact</i>
<i>Potentially Significant Impact</i>			

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?**                       

**Less Than Significant Impact.** As described in the General Plan, the California Geological Survey designates areas with deposits of regionally significant aggregate resources as Mineral Resource Zones (MRZ-2s). The Project site is located within an MRZ-2 for construction aggregate resources,<sup>37</sup> specifically the Irwindale Production Area. According to the General Plan Table 9.6: Geologic Inventory of Mineral Resources in Los Angeles County, the Irwindale Production Area, which includes the Peck Road Gravel Pit located approximately 0.2 miles southeast of the Project site, has an estimated depletion date of 2017. Although the Project site is located in the MRZ-2 Zone, under existing conditions, the majority of the approximately 3.6-acre Project site is currently developed as a mobilehome park, and the vacant portion of the site was previously developed with a structure by 1953, which was later replaced by another structure by 1966.<sup>38</sup> The Project’s Phase I Environmental Site Assessment determined that the previous structure that occupied the now vacant portion of the Project site was a restaurant.<sup>39</sup> The 3.68-acre Project site is surrounded by urban development including adjacent residential and commercial uses. As such, the Project site is not currently available for mineral production. The Project site is zoned for residential uses, and is not zoned for mineral extraction. The potential for the site to be used for substantial mineral extraction is limited by both the relatively small size of the site, as well as the adjacent residential and commercial uses that would not be compatible with large scale aggregate extraction as a new land use. The Project site will not extend beyond the currently developed urban environment. Therefore, the Project’s potential to cause a physical environmental impact regarding the availability of aggregate mineral resources would be less than significant.

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?**                       

**Less Than Significant Impact.** The Project site’s approximately 3.6 acres are surrounded by residential and commercial uses, and is currently developed with a mobilehome park on the majority of the site. As such, the Project site is not an important mineral resource recovery site, and potential impacts would be less than significant.

<sup>37</sup> Los Angeles County Department of Regional Planning, GIS-NET3 – Planning & Zoning Info and More, available at <http://planning.lacounty.gov/gisnet3>. Accessed on July 12, 2017.

<sup>38</sup> Envicom Corporation, Live Oak Arcadia Townhomes MND, Phase I Cultural Resources Assessment, Arcadia, California, May 29, 2018.

<sup>39</sup> The Reynolds Group, Phase I Environmental Site Assessment Report Mobilehome Park and Undeveloped Parcel 4343 and 4372 E. Live Oak Avenue, March 24, 2017.

**References:**

- Los Angeles County Department of Regional Planning, GIS-NET3 – Planning & Zoning Info and More, available at <http://planning.lacounty.gov/gisnet3>. Accessed on July 12, 2017.
- Los Angeles County Department of Regional Planning, Los Angeles County General Plan 2035, Adopted October 6, 2015. Table 9.6.
- Envicom Corporation, Live Oak Arcadia Townhomes MND, Phase I Cultural Resources Assessment, Arcadia, California, May 29, 2018.
- The Reynolds Group, Phase I Environmental Site Assessment Report Mobilehome Park and Undeveloped Parcel 4343 and 4372 E. Live Oak Avenue, March 24, 2017.



**13. NOISE**

	<i>Less Than Significant Impact with Mitigation Incorporated</i>	<i>Less Than Significant Impact</i>	<i>No Impact</i>
<i>Potentially Significant Impact</i>			

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 County General Plan or noise ordinance (Los Angeles County Code, Title 12, Chapter 12.08), or applicable standards of other agencies?**

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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**Less Than Significant Impact with Mitigation.** The following evaluation is based on the Project’s Noise Impact Analysis prepared by Giroux & Associates<sup>40</sup> provided as an **Appendix G** to this MND.

Noise is unwanted sound. Sound is mechanical energy that is transmitted by pressure waves through a compressible medium such as air. The sound pressure level, expressed in decibels (dB), has become the most common descriptor used to characterize the loudness of an ambient sound level. A dB is a ratio of the unit of sound pressure to an assumed zero sound level. Sound or noise can vary in intensity by over one million times within the range of human hearing so a logarithmic loudness scale similar to the Richter Scale is used to keep sound intensity numbers manageable. The human ear is not equally sensitive to all sound frequencies within the entire spectrum so noise levels at maximum human sensitivity are factored more heavily into sound descriptions in a process called A-weighting written as dB(A). Subsequent references to decibels written as dB should be understood as A weighted dB(A).

Time variations in noise exposure are typically expressed in Leq, a steady-state energy level equal to the energy content of the time varying period. Leq provides a statistical description of the sound level that is exceeded over some fraction of a given observation period. Because community receptors are more sensitive to unwanted noise intrusion during the evening and at night, state law requires that, for planning purposes, an artificial dB increment be added to quiet time noise levels in a 24-hour noise descriptor called the Community Noise Equivalent Level (CNEL), a weighted average of noise levels over time.

**Construction Impacts**

The Los Angeles County Noise Ordinance restricts and regulates hours of construction operation and levels of construction noise. In Exterior Noise Standards, Chapter 28.08, Part 4, Specific Noise Restrictions, Section 12.08.440, construction noise is restricted from 7:00 p.m. to 7:00 a.m. weekdays and at any time on Sundays or holidays when it creates a noise disturbance across a residential or commercial property line. Pursuant to Section 12.08.440 B, maximum construction noise levels at existing single-family residences adjacent to the site are limited to 75 dBA. The ordinance is somewhat ambiguous in its definition of “maximum.” In practice, the ordinance is interpreted to refer to the maximum one-hour average Leq as the appropriate construction activity noise performance standard.

Temporary construction noise impacts vary markedly because the noise strength of construction equipment ranges widely as a function of the equipment used and its activity level. Short-term construction noise impacts tend to occur in discrete phases dominated by earth-moving equipment sources with equipment noise ranging

<sup>40</sup> Hans Giroux & Associates, Noise Impact Analysis Live Oak Arcadia Residential County of Los Angeles, CA, October 9, 2017.

up to about 90 dB(A) at 50 feet from the source. Noise emissions are atmospherically attenuated by a factor of 6 dB per doubling of distance, or about 20 dB in 500 feet of propagation. Almost 280 feet of distance would be required between a source and receptor to reduce construction noise levels of 90 dB to the generally acceptable 75 dB exterior exposure level specified in the County Building Code.

The closest existing sensitive uses to the project site are the residential uses to the east and north. There is an approximate 25-foot buffer between the closest project building façade and existing residence to the east and a 40-foot separation to the closest residence on the north. It is not likely that the heaviest equipment would operate right along the property line, but construction noise at adjacent sensitive uses could be as high as 85 dB during demo and grading and 77 dB during construction. Typically, construction activity setback distances are much larger than the worst-case estimates measured from the closest project property line

Mobile construction equipment will operate at varying setback distances as the equipment moves around the project site. The center of the site is more than 150 feet from adjacent uses on the northern boundary and more than 300 feet on the eastern boundary. If this is considered an average, then noise levels would be reduced by 10 dB at the northern site perimeter and 16 dB at the eastern perimeter. In addition, there is a 6-foot block wall along the residential property lines which will assist in noise reduction, however because the existing residences are multi-story and because the proposed project is 3-stories, the block wall would only mitigate ground level activities at the first story of the adjacent homes.

The limitation of construction activities to the daytime per County Ordinance would prohibit construction noise during the hours when people normally sleep and would prohibit construction noise during the early morning and evening when people are typically within their home and more sensitive to noise effects. In addition, noise levels would be temporary and intermittent and comply with time of day requirements. Nevertheless, construction noise impacts may be noticeable at the adjacent residences and viewed as a temporary nuisance. In addition to time restrictions placed on permits, the following Mitigation Measures N-1 through MM N-6 are recommended to minimize the Project's potential to generate an adverse temporary increase in ambient noise levels in the vicinity.

#### MM N-1

**Prior to grading activities, erect a temporary 8-foot perimeter barrier along the northern and eastern shared property line to shield adjacent residences during construction activities. The Sound Transmission Class (STC) shall be 25 or greater for the sound barrier.**

#### MM N-2

**All equipment shall be equipped with properly operating and maintained mufflers.**

#### MM N-3

**Equipment and materials shall be staged in areas that will create the greatest distance between construction-related noise sources and the noise-sensitive receptors nearest the project site during all project construction.**

#### MM N-4

**Prior to construction activities, the contractor shall install a temporary acoustic barrier sound enclosure around stationary construction noise sources. The acoustic barrier shall have a Sound Transmission Class (STC) of 25 or greater (e.g., three sides with a partial top) to shield stationary noise sources (generators, pumps, compressors).**

**MM N-5**

**Construction-related trucks traveling to and from the project site shall be restricted to the same hours specified for the operation of construction equipment. To the extent feasible, haul routes shall not pass directly by sensitive land uses or residential dwellings.**

**MM N-6**

**Restrict truck engine idling to no more than five minutes.**

**Operations Impacts**

The proposed residential uses are not considered to be generators of substantial noise. Onsite noises generated by the proposed Project would be similar to the existing uses, as well as those of adjacent residential developments, and would not result in a substantial noise impact.

Long-term operational noise concerns from the development of residential uses primarily relate to mobile source emissions on project area roadways and equipment related to the proposed dwelling units. These concerns were addressed using the California specific vehicle noise curves (CALVENO) in the federal roadway noise model (the FHWA Highway Traffic Noise Prediction Model, FHWA RD 77-108). The model calculates the Leq noise level for a particular reference set of input conditions, and then makes a series of adjustments for site-specific traffic volumes, distances, roadway speeds, or noise barriers.

The proposed project would create an additional 400 daily trips as compared to the previous use as a mobile home park. Approximately 40% of traffic would travel east on Live Oak, 30% would travel west on Live Oak, 25% would head north on Mayflower Avenue and 5% would go south on Mayflower Avenue.

Existing vehicle counts on Live Oak and Mayflower Avenue were obtained from the LA County traffic division. The addition of the Project’s net increase in vehicle traffic would increase traffic noise by no more than 0.3 dB on adjacent roadways. This would be below the threshold of perception of +3 dB, and therefore, the Project’s contribution to traffic noise would be less than significant.

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

**Less Than Significant Impact.** Construction activities generate ground-borne vibration when heavy equipment travels over unpaved surfaces or when it is engaged in soil movement. Within the “soft” sedimentary surfaces of much of Southern California, ground vibration is quickly reduced with distance. Groundborne vibrations from construction activities rarely reach levels that can damage structures. Because vibration is typically not an issue, very few jurisdictions have adopted vibration significance thresholds. Vibration thresholds have been adopted for major public works construction projects, but these relate mostly to structural protection (cracking foundations or stucco) rather than to human annoyance. A vibration descriptor commonly used to determine structural damage is the peak particle velocity (ppv) which is defined as the maximum instantaneous positive or negative peak of the vibration signal, usually measured in in./sec. The threshold for structural vibration damage for modern structures is 0.5 in./sec for intermittent sources.<sup>41</sup> Older residential structures have a 0.3 in./sec threshold. Below this level there is virtually no risk of building damage. Based on the estimated vibration levels generated by construction equipment anticipated to be used on the Project site, a large bulldozer would generate the highest estimated vibration levels of 0.089 PPV (in./sec) at 25 feet. This would be well below the potential structural damage threshold of 0.3 in./sec. for older buildings. As construction equipment moves across the Project site, vibrations perceived at adjacent

<sup>41</sup> Federal Transit Administration, Transit Noise and Vibration Impact Assessment, May 2006.

residences would vary, as vibrations quickly diminish with distance. Vibrations from a large bulldozer would be reduced to 0.031 PPV at 50 feet, which is considered to be barely perceptible. As such, potential vibration impacts would be less than significant.

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

**No Impact.** The nearest airport to the site is the El Monte Airport, located southwest of the Project site. The northernmost extent of the airport’s single runway is located a distance of approximately 1.9 miles from the Project site. The Project site is not within an approach or departure flight corridor for the El Monte Airport, and according to the Department of Regional Planning’s GIS-NET3, would not expose people to excessive noise levels from airport operations. As the project currently includes residences within approximately 1.9 miles of the El Monte Airport, the project would not result in a change in conditions regarding distance of structures from the airport.

**References:**

- Federal Transit Administration, Transit Noise and Vibration Impact Assessment, May 2006.
- Hans Giroux & Associates, Noise Impact Analysis Live Oak Arcadia Residential County of Los Angeles, CA, October 9, 2017.
- Los Angeles County Department of Regional Planning, GIS-NET3 – Planning & Zoning Info and More, available at <http://planning.lacounty.gov/gisnet3>. Accessed on November 16, 2018.

**14. POPULATION AND HOUSING**

	<i>Potentially Significant Impact</i>	<i>Less Than Significant Impact with Mitigation Incorporated</i>	<i>Less Than Significant Impact</i>	<i>No Impact</i>
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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)?

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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**Less Than Significant Impact.** The population of unincorporated Los Angeles County is estimated to be 1,053,030 persons as of January 1, 2017.<sup>42</sup> According to the U.S. Census Bureau, the average household size in Los Angeles County is 3.02 persons per dwelling unit (2011-2015).<sup>43</sup> The Project would close an existing 56-space mobilehome park, and construct an 86-unit multi-family residential development, for a net increase of 30 dwelling units.<sup>44</sup> Based on the County’s average number of persons per dwelling unit, the Project’s net increase in dwelling units would result in a net population increase of 91 persons within the site, a less than 0.0009 percent increase over the County’s current unincorporated population. This increase is not considered significant. The proposed density is also consistent with the properties’ H-30 (Residential – up to 30 dwelling units per acre) land use designation set forth by the County’s General Plan which allows a maximum of 105 units based on the size of the project site.

As an infill development, the Project would not extend roads or other infrastructure that could indirectly induce population growth. Therefore, the Project would not result in a substantial increase of population, and potential impacts regarding inducing substantial population growth would be less than significant.

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

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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**Less Than Significant Impact.** The Project would redevelop an existing mobilehome park with residential townhomes. Development of the Project would result in the removal of 56 residential units (or potential units including vacant mobilehome spaces). The Project would construct 86 townhouse units within the site, for a net gain of 30 new residential units. The applicant has volunteered to set aside a total of five (5) units designated for moderate income level affordable housing. The Project’s CIR was prepared in accordance with Government Code Section 65863.7 that requires a CIR for a proposed closure of a mobilehome park to discuss the impact of the closure upon the displaced residents of the park, and the availability of adequate replacement housing in other mobilehome parks and relocation costs.

While the Code (Section 65863.7) requires a focus on the availability of replacement housing in mobilehome parks, the CIR looked at other alternative housing options as well. The CIR concluded that there are existing

<sup>42</sup> State of California Department of Finance. Table E-1: City/County Population Estimates with Annual Percent Change, January 1, 2016 and 2017.

<sup>43</sup> U.S. Census Bureau, Quick Facts, Los Angeles County. Available at <https://www.census.gov/quickfacts/fact/table/losangelescountycalifornia#viewtop>, Accessed on July 12, 2017.

<sup>44</sup> As of September 1, 2017, a total of 53 of the available spaces contained a mobilehome unit or RV/trailer. Due to the mobile nature of the dwelling unit types that may occupy the site in the current conditions, available spaces represent potential dwelling units, and thus this analysis is based on the full 56-unit capacity. However, any difference in population and housing effects whether using 56 available spaces or 53 onsite dwelling units would be negligible.

relocation alternatives within an approximately 20-mile radius for all current mobilehome residents of the Project site, including 95 condominium/townhome/SFR units and apartment units, 34 of which are for seniors only, ranging from studio size to three-bedroom units. Additionally, 53 mobile homes were for sale in other mobilehome parks within approximately 20 miles of the Project site. Therefore, implementation of the Project would not necessitate construction of replacement housing that may have a substantial physical environmental impact.

In 1991 the Los Angeles County Community Development Commission created a Summary of Benefits that is implied to be part of the Los Angeles County Code and is recommended for use in determining the “reasonable costs of relocation”. The Summary of Benefits, which is adjusted on a monthly basis pursuant to the Consumer Price Index, provides for a basic flat fee benefit along with potential supplemental benefits depending on the distance of the move of the mobilehome; size of the mobilehome; disability, income and/or age of the homeowner; or if a qualifying homeowner moves to other conventional housing instead.

Additionally, the Closure Impact Report proposes that the park operator have a relocation specialist available to provide non-monetary assistance to remaining tenants, such as:

1. Provide an explanation of benefits so homeowners have a full understanding of the assistance being offered related to the closure of the Mobilehome Park;
2. Provide homeowners with reports of available replacement housing to preferred locations of the homeowner;
3. Provide assistance as needed and requested to lessen hardships by working with the homeowner and real estate agents, property managers, and lenders in their efforts to secure replacement housing;
4. Facilitate interaction between the homeowner and professional furniture movers and companies that will disassemble, transport and reinstall a mobilehome, as well as health care providers and others;
5. Assist homeowners in inspecting replacement housing, if the homeowner does not have a car or cannot drive, by coordinating transportation so the homeowner can inspect replacement housing opportunities (Park Operator to pay for cost of reasonable pre-approved transportation expenses);
6. Assist homeowners with claims and preparation of paperwork, access to printer, computer, and fax; and,
7. Provide other individual assistance that may be required on a case by case basis as requested by the homeowners, for an aggregate period not to exceed eight hours of total relocation assistance from the relocation specialist, per mobilehome space.

However, subsequent to the preparation of the Closure Impact Report, the park operator reached a settlement with the remaining residents of the mobilehome park. As such, compensation has been provided by the park operator, in excess of the amounts afforded by the Summary of Benefits, pursuant to the terms of that agreement in lieu of the benefits described in the Closure Impact Report.

As such, closure of the existing mobilehome park and redevelopment of the property with 86 townhome units, including five units designated for affordable housing would not necessitate construction of replacement housing that may have a substantial physical environmental impact, and potential impacts associated with displacement of people or housing would be less than significant. Further, the provision of funds from the mobilehome park operator to the remaining tenants pursuant to the executed settlement agreement would reduce the financial burden of relocation for the remaining tenants.



**References:**

- State of California Department of Finance. Table E-1: City/County Population Estimates with Annual Percent Change, January 1, 2016 and 2017.
- U.S. Census Bureau, Quick Facts, Los Angeles County. Available at <https://www.census.gov/quickfacts/fact/table/losangelescountycalifornia#viewtop>, Accessed on July 12, 2017.
- Overland, Pacific & Cutler, LLC., Live Oak Community Park Closure Impact Report, May 25, 2018.

**15. PUBLIC SERVICES**

	<i>Less Than Significant</i>		
<i>Potentially Significant Impact</i>	<i>Impact with Mitigation Incorporated</i>	<i>Less Than Significant Impact</i>	<i>No Impact</i>

a) **Would the project create capacity or service level problems, or result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:**

**Fire protection?**

**Less Than Significant Impact.** The Los Angeles County Fire Department (LACoFD) serves the unincorporated areas of Los Angeles County as well as 59 cities. The LACoFD operates 173 fire stations within nine divisions. The LACoFD had a total of 4,713 personnel in 2013.<sup>45</sup> In addition to fire suppression, the LACoFD also provides fire prevention services, emergency medical services (EMS), hazardous materials services, and urban search and rescue (USAR) services. LACoFD’s Station 169 is the jurisdictional fire station for the Project Site. Water service will be provided by Golden State Water, which has provided a Statement of Water Service letters for the Project, dated June 22, 2017 and February 27, 2018, indicating that the proposed water distribution system for the Project would be adequate for meeting the required minimum fire flow and fire hydrant requirements pursuant to County Code Section 20.16.060. In addition, the Project’s internal circulation driveway will have two access points from public roadways, and has been designed to comply with all LACoFD access requirements. Consequently, potential impacts relative to new or physically altered fire protection facilities would be less than significant.

**Sheriff protection?**

**Less Than Significant Impact.** Law enforcement services in the unincorporated County are provided by the Los Angeles County Sheriff’s Department (LASD). According to the General Plan EIR, LASD staff has indicated that an officer-to- population ratio of one officer to every 1,000 residents provides the desired level of service for its service area. The Project would replace an existing mobilehome park with new residential development, resulting in a net increase of 30 residential units. Consequently, impacts relative to new or physically altered police facilities would be less than significant.

**Schools?**

**Less Than Significant Impact.** The Project site is located within the service area of the Monrovia Unified School District, and is within the service boundaries of Plymouth Elementary School, Santa Fe Middle School, and Monrovia High School. The Project’s proposed removal of a 56-space mobilehome park and construction of 86 townhome units would result in a net increase of 30 dwelling units. The net increase in dwelling units on the site would result in an increase of 0.0009 percent over the County’s current unincorporated population. According to the Los Angeles County General Plan Update Draft EIR, the student generation rate per residential unit for grades K-12 is 0.7 students per dwelling unit.<sup>46</sup> Using this rate, the net increase of 30 residential units on the site would generate approximately 21 additional students within the school district, some of which would attend the local elementary, middle, or high school.

<sup>45</sup> Los Angeles County, General Plan Update Draft Environmental Impact Report, June 2014.

<sup>46</sup> Los Angeles County, General Plan Update Draft Environmental Impact Report, June 2014.

Per California Government Code (CGC), the Project would be subject to the payment of school impact fees (Section 53080, CGC). As authorized under Section 17620(a) of the California Education Code (CEC) and Section 65995(b) of the CGC, local school districts are authorized to impose and collect school impact fees in accordance with SB 50<sup>47</sup> at the time of building permit issuance for development activities that occur within their jurisdiction. The funding program established by SB 50 has been found by the Legislature to constitute “full and complete mitigation of the impacts of any legislative or adjudicative act...on the provision of adequate school facilities” (Government Code Section 65995[h]). The fees authorized for collection under SB 50 are conclusively deemed full and adequate mitigation of impacts on school district facilities. Therefore, impacts regarding school facilities would be less than significant.

**Parks?**

**Less Than Significant Impact.** The nearest County park is Peck Road Water Conservation Park, located one mile from the Project site. The project has a Quimby obligation of 0.57 acres of parkland or \$198,936 in-lieu fees per Los Angeles County Code Section 21.28.140. This obligation will be met by the payment of \$198,936 in-lieu fees by the applicant to the Los Angeles County Parks and Recreation Department.

**Libraries?**

**Less Than Significant Impact.** The area surrounding the Project site is served by the Los Angeles County Live Oak Library, located at 4153-55 Live Oak Avenue. A library Facilities Mitigation Fee would be assessed to equitably distribute the cost of service provision resulting from an increase in users. The Project would result in a net population increase of 91 persons within the site, a less than 0.0009 percent increase over the County’s current unincorporated population. Consequently, increased library usage resulting from the proposed Project would be off-set by the payment of the Library Facilities Mitigation Fee.

**Other public facilities?**

**Less Than Significant Impact.** The Project would result in a net population increase of 91 persons within the site, a less than 0.0009 percent increase over the County’s current unincorporated population. This increase is not significant. Therefore, the Project would not be anticipated to substantially affect other public facilities, and potential impacts related to new or physically altered other public facilities would be less than significant.

**References:**

- Senate Bill 50 (“SB 50,” also known as Proposition 1A, codified in California Government Code Section 65995 et seq.).
- Los Angeles County, General Plan Update Draft Environmental Impact Report, June 2014.

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<sup>47</sup> Senate Bill 50 (“SB 50,” also known as Proposition 1A, codified in California Government Code Section 65995 et seq.)

## 16. RECREATION

- |   | <i>Potentially<br/>Significant<br/>Impact</i> | <i>Less Than<br/>Significant<br/>Impact with<br/>Mitigation<br/>Incorporated</i> | <i>Less Than<br/>Significant<br/>Impact</i> | <i>No<br/>Impact</i>     |
|---|---|--|---|--------------------------|
| a) <b>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?</b> | <input type="checkbox"/>                      | <input type="checkbox"/>   | <input checked="" type="checkbox"/>         | <input type="checkbox"/> |

**Less Than Significant Impact.** The nearest County park is Peck Road Water Conservation Park, located one mile from the Project site. The Project has a Quimby obligation of 0.57 or \$198,936 in-lieu fees per Los Angeles County Code Section 21.28.140. This obligation will be met by the payment of \$198,936 in-lieu fees by the applicant to DPR. Future residents of the proposed project would be expected to use existing neighborhood and regional parks, but such use is not expected to result in substantial physical deterioration of those facilities.

- |   |                          |                          |                                     |                          |
|---|--------------------------|--------------------------|-------------------------------------|--------------------------|
| b) <b>Does the project include neighborhood and regional parks or other recreational facilities or require the construction or expansion of such facilities which might have an adverse physical effect on the environment?</b> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|---|--------------------------|--------------------------|-------------------------------------|--------------------------|

**Less Than Significant Impact.** The Project does not include public park or recreational facilities. The Project will be required to pay in-lieu Quimby fees to satisfy park obligation. No construction or expansion of recreational facilities is required.

- |  |                          |                          |                          |                                     |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| c) <b>Would the project interfere with regional open space connectivity?</b> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|

**No Impact.** The proposed infill development would redevelop an existing mobilehome park with new townhomes. The Project site is surrounded by urban uses. The nearest regional trail is the Rio Hondo Bike Trail that runs along the Santa Anita Wash, and crosses Live Oak Avenue approximately 0.5 miles directly west of the Project site. As there are no open space resources proximate to the Project site, and due to the urbanized characteristics of the surrounding area, the proposed Project would not interfere with regional open space connectivity.

**17. TRANSPORTATION**

	<i>Potentially Significant Impact</i>	<i>Less Than Significant Impact with Mitigation Incorporated</i>	<i>Less Than Significant Impact</i>	<i>No Impact</i>
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Would the project:

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

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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**Less Than Significant Impact.** A Traffic Analysis memo for the Project, prepared by Associated Transportation Engineers,<sup>48</sup> dated June 20, 2017 (Appendix H), determined that the proposed development of 86 townhomes, and the closure of 56-unit mobilehome park would result in a net increase of 409 average daily trips (ADT), including 21 AM peak hour trips and 30 PM peak hour trips. According to the LA County traffic analysis guidelines, a traffic report is generally needed if a project generates over 500 trips per day, or where other possible adverse impacts are identified. As the Project would not generate a net increase of over 500 daily trips, a formal traffic study is not warranted. The Traffic Analysis for the Project indicates that the Project’s net traffic additions at the Live Oak Avenue/Mayflower Avenue intersection, located immediately southwest of the Project site, would be 9 AM peak hour trips and 10 PM peak hour trips. The Project’s net traffic additions at other intersections in the vicinity would be even lower. The Project’s net addition to peak hour traffic at the Live Oak Avenue/Mayflower Avenue intersection would result in volume to capacity (V/C) increases of less than 0.01. Based on the LA County impact criteria, a V/C increase of less than 0.01 would be insignificant for intersection operations regardless of the current LOS conditions. Therefore, the Project’s potential to conflict with an applicable program, plan, ordinance, or policy addressing the circulation system related to a net increase in traffic would be less than significant.

The Project is an infill development that would replace an existing mobilehome park with a new townhome development. The proposed Project would retain (or replace) existing sidewalks along the Project site frontage with Live Oak Avenue and Mayflower Avenue to maintain pedestrian facilities that connect with other sidewalks along the local roadway network. A public transit bus stop bench is currently located in front of the site along Live Oak Avenue, which would not be removed by the Project. The Project would not otherwise decrease the performance or safety of the bus stop facility, or otherwise remove or affect the performance or safety of the existing bus stop. Each proposed residential unit would have space available for bicycle storage within private garages, and short-term bicycle parking spaces would be provided within proposed common areas of the Project. Therefore, the Project would have no impact regarding conflicts with policies, plans, or programs for public transit, bicycle, or pedestrian facilities, or the performance or safety of such facilities.

**b) Conflict with an applicable congestion management program (CMP), including, but not limited to, level of service standards and travel demand measures, or other standards established by the CMP for designated roads or highways?**

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	-------------------------------------	--------------------------

**Less Than Significant Impact.** As reported in the Project’s Traffic Analysis memo, the Project would result in a net increase of 21 AM peak hour trips and 30 PM peak hour trips. Based on the Guidelines for CMP Transportation Impact Analysis provided in the 2010 Congestion Management Program for Los Angeles

<sup>48</sup> Associated Transportation Engineers, Traffic Analysis for the Live Oak Residential Project, Los Angeles County, June 20, 2017.

County, a project that is required to conduct a transportation impact study would be required to evaluate all CMP arterial monitoring intersections where a proposed project would add 50 or more trips during either the AM or PM weekday peak hours. The Project's net peak hour increases would be below the criteria for evaluating CMP intersection impacts, and would also be below other CMP analysis criteria. Because no facilities are identified for CMP analysis based on the criteria of the Guidelines, no further traffic analysis is required, and the Project's CMP impacts would be less than significant.

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

**Less Than Significant Impact.** The Project proposes a townhome development with an internal private drive with access points from Live Oak Avenue and Mayflower Avenue, neither of which present sharp curves in the Project vicinity. The intersection of those two roadways would be more than 200 feet distant from both Project driveway access points. The Project would not introduce incompatible land uses as the proposed residential land use would be consistent with surrounding land uses. Therefore, potential impacts regarding hazards due to design features or incompatible uses would be less than significant.

**d) Result in inadequate emergency access?**                                                                               

**No Impact.** The Project would have two separate driveway entrances to allow access from Live Oak Avenue or Mayflower Avenue. The Project driveways would connect to a private drive for internal vehicular access to all of the proposed townhomes. Project access would be required to comply with County Regional Planning and Fire Department requirements for emergency accessibility, including driveway width, clearance, proximity to structures, and turnaround areas. As such, the Project would not result in inadequate emergency access.

**References:**

- Associated Transportation Engineers, Traffic Analysis for the Live Oak Residential Project, Los Angeles County, June 20, 2017.



**18. TRIBAL CULTURAL RESOURCES**

	<i>Less Than Significant</i>		
<i>Potentially Significant Impact</i>	<i>Impact with Mitigation Incorporated</i>	<i>Less Than Significant Impact</i>	<i>No Impact</i>

a) **Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code §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:**

- i) **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 § 5020.1(k), or**

**Less Than Significant Impact.** A Phase I cultural resource assessment of the Project site was completed by Envicom Corporation on December 20, 2018 (Appendix C). It consists of a SCCIC and NAHC records search to provide cultural resource context and identify any previous cultural resources that have been recorded within the proposed project area, assessment of the overall cultural resource sensitivity of the project region, and a pedestrian survey of the vacant portion of the project site to determine if unrecorded resources could be identified from surface observation. On December 13, 2018, a SCCIC records search report was prepared that indicates a list of all known cultural resources that are located within a 0.5-mile radius of the Project site and a list of cultural resource reports relating to the project area. The SCCIC identified four built historic resources within the study area: 1) a single-family residence (P-19-192202); 2) a single-family residence (P-19-190350); 3) Church of the Annunciation Catholic Church (P-19-190065) built in 1950; and 4) Village Presbyterian Church of Arcadia built in 1954. The SCCIC report indicates there are no historic or archaeological resources located on-site. The SCCIC results indicate 13 reports were related to the 0.5-mile search area. According to the Phase 1 Cultural Resources Assessment, seven of the cultural resource reports (LA-06859, LA-08211, LA-09238, LA-10583, LA-11108, LA-11936, and LA-12497) are associated with properties or areas near the outer edge of the study radius, and do not pertain to the project site. The Cultural Resource Assessment also indicates six of the 13 cultural resource reports (LA-03511, LA-03583, LA-04323, LA-11484, LA-11747, and LA-11748) provide broad discussions of the project area, and such “overview” documents often contain general historic or prehistoric information, but do not include detailed discussions of cultural resources. Details on all of these cultural resources, cultural resource reports, and the rest of the SCCIC non-confidential report material are provided with the Project’s Cultural Resource Assessment.

Pursuant to AB 52, lead agencies must provide notice to California Native American tribes that are traditionally and culturally affiliated with the geographic area wherein a project is proposed, inviting consultation, if the Tribe has submitted a request in writing to be notified of proposed projects. The Tribe must respond in writing within 30 days of the County’s AB 52 notice. The project site is located within a geographic area that is affiliated with the Gabrieleno Band of Mission Indians – Kizh Nation and Gabrieleno Tongva. Consultation letters were issued to the tribes on April 2, 2018 via mail. On April 6, 2018, the Gabrieleno Band of Indians – Kizh Nation replied to the notice and expressed interest in project consultation. Consultations were held with the Gabrieleno Band of Indians – Kizh Nation on May 30, 2018; January 29,

2019; January 31; February 1, 2019, March 18, 2019, March 19, 2019, March 26, 2019, and April 5, 2019. The tribe shared oral history of the area. The tribe did not mention a specific tribal cultural resource exists on-site.

Based on records search results and tribal consultation, the Project would have a less than significant impact regarding potential substantial adverse changes in the significance of a tribal cultural resource, as defined in Public Resources Code section 21074, and that is listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources.

**ii) 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 § 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code § 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.**

**Less Than Significant Impact With Mitigation.** A 56-space mobilehome park occupies the majority of a 3.59-acre project site. According the project’s Phase 1 Environmental Assessment, the vacant southeast portion of the project site was once developed with a restaurant. The applicant proposes to construct 86 attached townhomes among 12 buildings. Associated grading includes 121 c.y. of cut and 4,758 c.y. of fill, and 9,286 c.y. of overexcavation of unsuitable soils and 9,286 c.y. of recompaction of suitable soils. According to the Project’s Geotechnical Technical Investigation, overexcavation involves excavating to a depth of three to five feet where buildings are proposed, extending three feet beyond the buildings’ foundation. Twelve buildings are proposed throughout the project site. Additionally, excavation will be required for utility trenching and installation of the underground stormwater structures near Live Oak and Mayflower Avenues.

The Phase I Project’s Cultural Resource Assessment includes a cultural resource records search conducted by the South-Central Coast Information Center (SCCIC), a Native American sacred lands search conducted by the Native American Heritage Commission (NAHC), and a pedestrian survey of the vacant portion of the Project site. The Cultural Resource Assessment indicates a survey was not performed for the paved area developed with mobilehome spaces due to complete urban development. The Assessment reports, “The soils should not be considered sensitive for prehistoric cultural resources and the project...and the area does not appear to be sensitive for historic resources...” The purpose of the records searches is to identify any previous cultural resources that have been recorded within the proposed project area, to provide cultural resource context for the project, and to assess the overall cultural resource sensitivity of the project region. The NAHC identifies and catalogs Native American cultural resources including places of special religious or social significance, and known graves and cemeteries on private lands. Therefore, a records search of the NAHC’s Sacred Lands File was completed for the area of potential project effect (APE) on May 15, 2018, returning negative findings. A subsequent sacred lands search, based on a search of the El Monte USGS Quadrangle which covers 62 square miles, was completed on December 5, 2018, with positive results. <sup>12</sup> The SCCIC report, dated December 13, 2018 indicates there are no historic or archaeological resources located on-site

Pursuant to AB 52, lead agencies must provide notice to California Native American tribes that are traditionally and culturally affiliated with the geographic area wherein a project is proposed, inviting consultation, if the Tribe has submitted a request in writing to be notified of proposed projects. The Tribe must respond in writing within 30 days of the County’s AB 52 notice. The project site is located within a geographic area that is affiliated with the Gabrieleno Band of Mission Indians – Kizh Nation and Gabrieleno Tongva. Consultation letters were issued to the tribes on April 2, 2018 via mail. On April 6, 2018, the Gabrieleno Band of Indians – Kizh Nation replied to the notice and expressed interest in project consultation.

Consultations were held with the Gabrieleno Band of Indians – Kizh Nation on May 30, 2018; January 29, 2019; January 31; February 1, 2019, March 18, 2019, March 19, 2019, March 26, 2019, and April 5, 2019. The tribe shared oral history of the area. The tribe said that they cannot pin-point where resources are located; but, that there is a higher than normal concern that unknown artifacts may lie below the surface due to the area’s history and cultural landscape, and further recommended a tribal monitor for all earth disturbing activities, not limited to grading. The tribe did not share any specific finds, within the vicinity of the project site, resulting from tribal monitoring activities. The consultation concluded on April 11, 2019 without agreement.

The County’s General Plan Update EIR, distinguishes between Native American sacred sites and isolates. The 2015 EIR states, “A Native American sacred site is defined as an area that has been and often continues to be of religious significance to Native American peoples, such as an area where religious ceremonies are practiced or an area that is central to their origins as a people” (pg. 417). The EIR defines an isolate as “an artifact or small group of artifacts that appear to reflect a single event, loci, or activity and may lack identifiable context, but has the potential to add important information about a region, culture, or person: (pg. 417). Further, isolates are ineligible for CRHR and NRHP listing, and do not require avoidance or mitigation under CEQA because “their information potential has been exhausted by accurate recording,...or collecting.” (417).

Archaeological materials have been found throughout the county, both in urbanized and undeveloped locations. The presence of subsurface archaeological resources is always a possibility in areas where only surface inspection has taken place. There are no known tribal cultural resources on-site. However, based on the information shared during tribal consultations and the positive Sacred Lands File results, compliance with the following mitigation measure would reduce the potential impacts concerning unanticipated discovery of unknown tribal cultural resources to less than significant:

#### **MM TCR-1**

**In the event, archaeological cultural resources are encountered during Project construction, all ground-disturbing activities within the vicinity of the find shall cease and a qualified archaeologist, Gabrieleno Band of Mission Indians-Kizh Nation, and the County’s Department of Regional Planning shall be notified of the find. The archaeologist shall record all recovered archaeological resources on the appropriate California Department of Parks and Recreation Site Forms to be filed with the California Historical Resources Information System–South Central Coastal Information Center, evaluate the significance of the find, and if significant, determine and implement the appropriate mitigation in accordance with the U.S. Secretary of the Interior and California Office of Historic Preservation guidelines, including but not limited to a Phase III data recovery and associated documentation, and in consultation with the designated Native American representative. Construction shall not resume in the locality of the discovery until consultation between the archaeologist, the Project manager, the County of Los Angeles Department of Regional Planning, the applicant’s representative, and all other concerned parties, takes place and a response concluded that is approved of by the Lead Agency. If a significant cultural resource is discovered during earth-moving activities, complete avoidance of the find is preferred. However, further survey work, evaluation tasks, or data recovery of the significant resource may be required by the Lead Agency if the resource cannot be avoided. In response to the discovery of cultural resources, the Department of Regional Planning may also add mitigation measures for use during continued site development. The archaeologist shall prepare a final report about the find to be filed with the Applicant, the County of Los Angeles Department of Regional Planning, and the California Historical Resources Information System–South Central Coastal Information Center, as required by the California Office of Historic Preservation. The report shall include documentation of the resources recovered, a**

**full evaluation of the eligibility with respect to the California Register of Historical Resources, and treatment of the resources recovered.**

**References:**

- Envicom Corporation, Live Oak Arcadia Townhomes MND, Phase I Cultural Resources Assessment, Arcadia, California, December 20, 2018.
- The Reynolds Group, Phase I Environmental Site Assessment Report Mobilehome Park and Undeveloped Parcel 4343 and 4372 E. Live Oak Avenue, March 24, 2017.
- Sapphos Environmental, Inc. prepared for PlaceWorks, Los Angeles County General Plan Update, Los Angeles County Cultural Resource Report, June 12, 2014.
- Los Angeles County General Plan Environmental Impact Report, March 2015, [http://planning.lacounty.gov/assets/upl/project/gp\\_2035\\_deir.pdf](http://planning.lacounty.gov/assets/upl/project/gp_2035_deir.pdf), accessed March 11, 2019.
- State of California, Department of Conservation, Division of Mines and Geology, Seismic Hazard Zone Report For The El Monte 7.5-Minute Quadrangle, Los Angeles County, California, 1998, [http://gmw.consrv.ca.gov/SHP/EZRIM/Reports/SHZR/SHZR\\_024\\_El\\_Monte.pdf](http://gmw.consrv.ca.gov/SHP/EZRIM/Reports/SHZR/SHZR_024_El_Monte.pdf), accessed April 22, 2019.
- Geotechnologies, Inc. Proposed Residential Development, 4343 and 4371 East Live Oak Avenue, Arcadia, California, Geotechnical Technical Investigation, March 22, 2017.

**19. UTILITIES AND SERVICE SYSTEMS**

	<i>Potentially Significant Impact</i>	<i>Less Than Significant Impact with Mitigation Incorporated</i>	<i>Less Than Significant Impact</i>	<i>No Impact</i>
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Would the project:

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

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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**Less Than Significant Impact.**

**Water Facilities**

Water supplies for the Project would be provided by connecting to an existing water line that serves the mobilehome park that currently occupies the site. Golden State Water Company is the water purveyor for the Project site and has provided June 22, 2017<sup>49</sup> and February 27, 2018<sup>50</sup> letters to the Applicant indicating that adequate water distribution is available to serve the Project. This includes meeting minimum domestic flow requirements as provided by County Code Section 20.16.070 and minimum fire flow and fire hydrant requirements as provide by County Code Section 20.16.060. Therefore, the Project would not create capacity problems and would not require or result in the relocation or construction of new or expanded water facilities, the construction or relocation of which could cause significant environmental effects. Potential impacts regarding relocation of construction of new or expanded water facilities would be less than significant.

**Wastewater Facilities**

The proposed Project is located within the jurisdictional boundary of the Los Angeles County Sanitation Districts (LACSD) District No. 15. LACSD is a confederation of 24 independent districts that provide wastewater treatment for many areas of unincorporated Los Angeles County, including the Project site and surrounding area. The LACSD serve the wastewater and solid waste management needs of approximately 5.2 million people, within a service area of over 800 square miles that includes 78 cities and the unincorporated areas. LACSD has provided a Will Serve letter for the Project dated April 23, 2018.

Wastewater flow originating at the Project site will discharge directly to the Districts’ Joint Outfall B Unit 8F Trunk Sewer, located in Live Oak Avenue at Mayflower Avenue. The Districts’ 24-inch diameter trunk sewer has a capacity of 7.1 million gallons per day (mgd) and conveyed a peak flow of 1.4 mgd when last measured in 2012. An 8-inch diameter or larger direct connection to a trunk sewer requires submittal of Sewer Plans for review and approval by the Districts.

Wastewater generated by the Project would be treated at the San Jose Creek Water Reclamation Plant (WRP) located adjacent to the City of Industry, which has a design capacity of 100 mgd and currently processes an average flow of 64.1 mgd.<sup>51</sup> All biosolids and wastewater flows that exceed the capacity of the San Jose Creek WRP are diverted to and treated at the Joint Water Pollution Control Plant in the City of Carson.

<sup>49</sup> Golden State Water Company, Statement of Water Service for 4343 Live Oak Ave. Arcadia, CA, June 22 2017.

<sup>50</sup> Golden State Water Company, Statement of Water Service for 4343 and 4371 Live Oak Ave. Arcadia, CA, February 27, 2018.

<sup>51</sup> County Sanitation Districts of Los Angeles County, Will Serve Letter for The 4343 and 4371 East Live Oak Avenue Multi-family Home Development, April 23, 2018.



**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?**

**No Impact.** As discussed above, the Project's wastewater treatment demand would be served by the LACSD, which has adequate capacity to serve the Project and would not require new or expanded facilities to serve the Project. LACSD has provided a Will Serve letter for the Project (dated April 23, 2018), that indicates the wastewater flow originating from the proposed project will discharge directly to the Districts' Joint Outfall B Unit 8F Trunk Sewer, located in Live Oak Avenue at Mayflower Avenue. The Districts' 24- inch diameter trunk sewer has a capacity of 7.1 million gallons per day (mgd) and conveyed a peak flow of 1.4 mgd when last measured in 2012. No impact would occur.

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

**Less Than Significant Impact.** The Los Angeles County Sanitation Districts is responsible for solid waste collection and disposal within the County. The Countywide Siting Element as updated establishes goals and policies for the County to maintain adequate permitted disposal capacity for a 15-year planning period. Solid waste from the Project site and surrounding area is disposed of at various landfills, including Sunshine Canyon and Whittier Savage Canyon. According to the Countywide Integrated Waste Management Plan 2016 Annual Report,<sup>53</sup> Sunshine Canyon has a remaining permitted capacity of 62,108,650 tons, and a maximum permitted daily capacity of 12,100 tons. Whittier Savage has a remaining permitted capacity of 4,894,183 tons, and a maximum permitted daily capacity of 350 tons. The Project's net increase of dwelling units (or potential dwelling units) on the site would generate approximately 120 to 258 pounds per day of solid waste,<sup>54</sup> or 0.06 to 0.13 tons per day. The Project's net increase in solid waste generation would represent approximately 0.001 percent of the daily intake capacity of Sunshine Canyon, which would not be significant.

The Waste Management Act (AB 939) requires each California city and county to prepare, adopt, and submit to the California Department of Resources Recycling and Recovery (CalRecycle) a source reduction and recycling element (SRRE) that demonstrates how the jurisdiction will meet AB 939's mandated diversion goals of 50 percent.

During construction, to reduce the amount of demolition and construction debris disposed at landfill facilities, pursuant to County Municipal Code Chapter 20.87, Construction and Demolition Debris Recycling and Reuse, the Project would be required to prepare a recycling and reuse plan for review and approval by the Department of Public Works, Environmental Programs Division. The plan would demonstrate compliance with the recycling or reuse rate for construction and demolition materials applicable at the time that a building permit is applied for.

During operations, to reduce the amount of debris disposed at landfill facilities, each residential unit's garage space has been designed with adequate space for both a trash bin and a recyclables bin for residents to separate

<sup>53</sup> County of Los Angeles, Countywide Integrated Waste Management Plan 2016 Annual Report, September, 2017.

<sup>54</sup> CalRecycle, Residential Sector Generation Rates, accessed at <https://www2.calrecycle.ca.gov/WasteCharacterization/General/Rates>, on October 3, 2017.



disposal materials.<sup>55</sup> Green waste generated by landscaped common areas would be removed from the site by a landscaping contractor that would service the project's common areas, and therefore, no onsite storage space for green waste would be necessary.

Disposal of solid waste from the Project and incorporation of a recycling component would be consistent with the policies and programs contained within the County of Los Angeles SRRE. Therefore, potential impacts associated with landfill capacity or attainment of solid waste reduction goals would be less than significant.

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

**Less Than Significant Impact.** A significant impact may occur if a Project would generate solid waste that was not disposed of in accordance with applicable regulations. The proposed Project would generate solid waste that is typical of residential uses, for disposal at a landfill permitted for municipal wastes (Class III). Household Hazardous Waste (HHW) is any product labeled toxic, poisonous, combustible, corrosive, irritant, or flammable. Some examples include antifreeze, batteries, cleaning supplies, unused non-controlled pharmaceuticals, fluorescent light bulbs, TVs, computers, and cell phones. By law, these products must be properly recycled or disposed of at a hazardous waste facility. The Household Hazardous Waste Collection Program allows County residents to drop off unwanted items that cannot be thrown in the regular trash for free at S.A.F.E. Centers (Solvents/Automotive/Flammables/Electronics), which include several permanent locations and also mobile events. The following Mitigation Measure U-2 is recommended based on input by the County of Los Angeles Department of Public Works, Environmental Programs Division to ensure that future homeowners are aware of HHW disposal requirements and facilities. Providing educational material would not have any bearing on the project's level of impact to solid waste.

**MM U-2**

**Each residential unit shall be provided educational material on the proper management and disposal of household hazardous waste prior to obtaining a Certificate of Occupancy, which shall include, but not be limited to, the phone number (1-888-CLEAN LA) and website address for the County of Los Angeles Department of Public Works, Environmental Programs Division, to ensure access to available collection locations, schedules, and drop-off requirements.**

**References:**

- County Sanitation Districts of Los Angeles County, Will Serve Letter for The 4343 and 4371 East Live Oak Avenue Multi-family Home Development, April 23, 2018.
- County Sanitation Districts of Los Angeles County, Will Serve Letter for The 4343 and 4371 East Live Oak Avenue Multi-family Home Development, July 7, 2017.
- Golden State Water Company, Statement of Water Service for 4343 Live Oak Ave. Arcadia, CA, June 22 2017.
- Golden State Water Company, Statement of Water Service for 4343 and 4371 Live Oak Ave. Arcadia, CA, February 27, 2018.
- Kimley-Horn, Preliminary Hydrology & Hydraulics Report TR 80294 Live Oak – Arcadia 4343 and 4371 East Live Oak Avenue Arcadia, CA 91006, May 14, 2018.
- County of Los Angeles, Countywide Integrated Waste Management Plan 2016 Annual Report, September 2017.

<sup>55</sup> KTG Architecture + Planning, 4343-4371 East Live Oak Avenue, Sheets A4.0 – A4.2. August 22, 2018.

- CalRecycle, Residential Sector Generation Rates, accessed at <https://www2.calrecycle.ca.gov/WasteCharacterization/General/Rates>, on October 3, 2017.
- California Department of Resources Recycling and Recovery (CalRecycle), SWIS Facility Detail Valley Park Corp Dump (19-AA-0779), accessed at <https://www2.calrecycle.ca.gov/swfacilities/Directory/19-AA-0779> on November 30, 2018.

**20. WILDFIRE**

	<i>Less Than Significant Impact with Mitigation Incorporated</i>	<i>Less Than Significant Impact</i>	<i>No Impact</i>
<i>Potentially Significant Impact</i>			

**If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, Would the project:**

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

**No Impact.** The Project site is an infill property located in a flat and urbanized area of the County, which is not within a Very High Fire Hazard Severity Zone, and thus would have no impact regarding exposure of people or structures to significant risk of loss, injury, or death due to wildfire.

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?

**No Impact.** The Project site is an infill property located in a flat and urbanized area of the County, which is not within a Very High Fire Hazard Severity Zone, and thus would have no impact regarding exposure of 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?

**No Impact.** The Project site is an infill property located in a flat and urbanized area of the County, which is not within a Very High Fire Hazard Severity Zone, and thus would not require the installation or maintenance of wildfire 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. No impact would occur.

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?

**No Impact.** The Project site is an infill property located in a flat and urbanized area of the County, which is not within a Very High Fire Hazard Severity Zone, and thus would not 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. No impact would occur.

**References:**

- Los Angeles County Department of Regional Planning, Los Angeles County General Plan 2035, Adopted October 6, 2015. Figure 12.5, Fire Hazard Severity Zones Policy Map.

**21. MANDATORY FINDINGS OF SIGNIFICANCE**

	<i>Potentially Significant Impact</i>	<i>Less Than Significant Impact with Mitigation Incorporated</i>	<i>Less Than Significant Impact</i>	<i>No Impact</i>
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a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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**Less Than Significant Impact With Mitigation.** As evaluated above, the Project would not have the potential to degrade the quality of the environment. The Project is proposed within an urban infill site with no natural drainages or water bodies or connections to natural habitat areas, and therefore would not substantially reduce habitat, cause wildlife populations to drop below self-sustaining levels, eliminate plant or animal communities, or reduce the range of rare or endangered species. The Project site does not contain any known examples of major periods of California history or prehistory. The site has the potential to be sensitive for cultural resources and mitigation measures have been identified in the cultural section above to provide guidance for treatment of unanticipated discovery of archaeological resources. Impacts regarding degradation of the quality of the environment would be less than significant with mitigation.

b) Does the project have the potential to achieve short-term environmental goals to the disadvantage of long-term environmental goals?

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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**No Impact.** As an infill development, the Project would replace a mobilehome park that has operated since 1956 with new buildings to be constructed consistent with current CBC and Green Building Codes. Pursuant to CBC and Green Building Code contemporary requirements, the Project would include energy efficient heating and air conditioning and lighting, and water conserving plumbing and irrigation fixtures. Project improvements are expected to result in improved energy efficiency and reduced site stormwater runoff. The County General Plan Land Use Map designates the Project site Residential 30 (H30), which allows for a residential density of 0-30 dwelling units/acre. The purpose of the H30 designation is for single-family residences, two-family residences, and multifamily residences. The Project site is currently zoned R-3 which allows for apartments, as well as two-family and single-family residential uses. The proposed Project would be consistent with the currently designated land use and zoning for the site.

As an infill development that would replace a mobilehome park that has operated since the 1960's, and develop a vacant lot with needed housing, the Project would be consistent with the following Goals and Policies of the General Plan Land Use Element:

- Goal LU 4: Infill development and redevelopment that strengthens and enhances communities.
- Policy LU 4.1: Encourage infill development in urban and suburban areas on vacant, underutilized, and/or brownfield sites.

- Policy LU 9.2: Encourage patterns of development that promote physical activity.
- Goal LU 10: Well-designed and healthy places that support a diversity of built environments.
- Policy LU 10.1: Encourage community outreach and stakeholder agency input early and often in the design of projects.
- Policy LU 10.3: Consider the built environment of the surrounding area and location in the design and scale of new or remodeled buildings, architectural styles, and reflect appropriate features such as massing, materials, color, detailing or ornament.
- Policy LU 10.4: Promote environmentally-sensitive and sustainable design.
- Policy LU 10.5: Encourage the use of distinctive landscaping, signage and other features to define the unique character of districts, neighborhoods or communities, and engender community identity, pride and community interaction.
- Policy LU 10.6: Encourage pedestrian activity through the following:
  - Designing the main entrance of buildings to front the street;
  - Incorporating landscaping features;
  - Limiting masonry walls and parking lots along commercial corridors and other public spaces;
  - Incorporating street furniture, signage, and public events and activities; and
  - Using wayfinding strategies to highlight community points of interest.
- Policy LU 10.12: Discourage gated entry subdivisions (“gated communities”) to improve neighborhood access and circulation, improve emergency access, and encourage social cohesion.

The proposed development will result in a net gain of 30 housing units that includes a voluntary set aside of five affordable units. In addition, the project will add multi-family housing units to an area consisting predominately of single family homes. As such, the proposed development of new townhomes would also be consistent with the following goals and policies of the County’s adopted Housing Element (2008):

- Policy 3.2: Incorporate advances in energy and cost-saving technologies into housing design, construction, operation, and maintenance.
- Goal 6. An adequate supply of housing preserved and maintained in sound condition, located within safe and decent neighborhoods.

Therefore, the Project would be consistent with County General Plan policies relative to infill development and its zoning. Consequently, the Project would have no impact regarding achieving short-term environmental goals to the disadvantage of long term environmental goals.

c) Does the project have impacts that are individually limited, but cumulatively considerable?

("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?

**Less Than Significant Impact.** The Project proposes to replace a mobilehome park with new residential development. It would not have substantial impacts on the quality of the environment. No significant regional or cumulative impacts are foreseen. Consequently, the Project is not expected to have a potential to create cumulatively considerable adverse impacts.

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

**Less Than Significant Impact.** The Project would remove an existing mobilehome park and construct residential townhomes. The Project's Phase I Environmental Site Assessment determined that there are no recognized environmental conditions on the property or immediate vicinity that would indicate the presence of hazardous materials within the site. Additionally, as evaluated above, the Project would not cause substantial adverse effects on human beings. Impacts would be less than significant.



CalEEMOD Output Data

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# APPENDIX A

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

**Live Oak Arcadia Townhomes**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	22.00	Space	0.00	8,800.00	0
Condo/Townhouse	86.00	Dwelling Unit	3.62	143,907.00	260

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2020
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

Project Characteristics -

Land Use - 3.62 ac lot for all uses. 143,907 sf res. Gross pop. 260

Construction Phase - grading 21 days

Off-road Equipment -

Off-road Equipment - 1 dozer. 3 backhoe

Trips and VMT - 844 haul trips (422 trips each way)

Demolition - 21,509 sf demo two buildings, awnings, sheds

Grading - 4,637 cy import

Vehicle Trips - Parking is for residential project only.

Woodstoves - No Hearths

Construction Off-road Equipment Mitigation -

Off-road Equipment -

## Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	8.00	21.00
tblConstructionPhase	PhaseEndDate	10/16/2019	11/4/2019
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	73.10	0.00
tblFireplaces	NumberNoFireplace	8.60	0.00
tblFireplaces	NumberWood	4.30	0.00
tblGrading	AcresOfGrading	10.50	4.00
tblGrading	MaterialImported	0.00	4,637.00
tblLandUse	LandUseSquareFeet	86,000.00	143,907.00
tblLandUse	LotAcreage	0.20	0.00
tblLandUse	LotAcreage	5.38	3.62
tblLandUse	Population	246.00	260.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	3.00
tblTripsAndVMT	HaulingTripNumber	580.00	844.00
tblTripsAndVMT	WorkerTripNumber	10.00	18.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblWoodstoves	NumberCatalytic	4.30	0.00
tblWoodstoves	NumberNoncatalytic	4.30	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

## Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

**2.0 Emissions Summary****2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	5.8250	63.5048	40.2154	0.1002	7.9275	2.7493	10.6769	3.7888	2.5574	6.3462	0.0000	10,167.50 40	10,167.50 40	1.8617	0.0000	10,214.04 66
2020	50.4703	20.5951	19.8333	0.0370	0.8081	1.1288	1.9370	0.2159	1.0614	1.2773	0.0000	3,580.354 5	3,580.354 5	0.6657	0.0000	3,596.997 3
<b>Maximum</b>	<b>50.4703</b>	<b>63.5048</b>	<b>40.2154</b>	<b>0.1002</b>	<b>7.9275</b>	<b>2.7493</b>	<b>10.6769</b>	<b>3.7888</b>	<b>2.5574</b>	<b>6.3462</b>	<b>0.0000</b>	<b>10,167.50 40</b>	<b>10,167.50 40</b>	<b>1.8617</b>	<b>0.0000</b>	<b>10,214.04 66</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	5.8250	63.5048	40.2154	0.1002	4.4906	2.7493	7.2399	1.9541	2.5574	4.5115	0.0000	10,167.50 40	10,167.50 40	1.8617	0.0000	10,214.04 66
2020	50.4703	20.5951	19.8333	0.0370	0.8081	1.1288	1.9370	0.2159	1.0614	1.2773	0.0000	3,580.354 5	3,580.354 5	0.6657	0.0000	3,596.997 3
<b>Maximum</b>	<b>50.4703</b>	<b>63.5048</b>	<b>40.2154</b>	<b>0.1002</b>	<b>4.4906</b>	<b>2.7493</b>	<b>7.2399</b>	<b>1.9541</b>	<b>2.5574</b>	<b>4.5115</b>	<b>0.0000</b>	<b>10,167.50 40</b>	<b>10,167.50 40</b>	<b>1.8617</b>	<b>0.0000</b>	<b>10,214.04 66</b>

## Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	39.34	0.00	27.25	45.81	0.00	24.07	0.00	0.00	0.00	0.00	0.00	0.00

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.3168	0.0824	7.1210	3.7000e-004		0.0392	0.0392		0.0392	0.0392	0.0000	12.7803	12.7803	0.0125	0.0000	13.0921
Energy	0.0436	0.3730	0.1587	2.3800e-003		0.0302	0.0302		0.0302	0.0302		476.1271	476.1271	9.1300e-003	8.7300e-003	478.9564
Mobile	1.0225	5.0796	13.7359	0.0448	3.6308	0.0471	3.6779	0.9718	0.0442	1.0159		4,547.7205	4,547.7205	0.2577		4,554.1627
<b>Total</b>	<b>4.3830</b>	<b>5.5349</b>	<b>21.0155</b>	<b>0.0475</b>	<b>3.6308</b>	<b>0.1164</b>	<b>3.7472</b>	<b>0.9718</b>	<b>0.1135</b>	<b>1.0852</b>	<b>0.0000</b>	<b>5,036.6279</b>	<b>5,036.6279</b>	<b>0.2793</b>	<b>8.7300e-003</b>	<b>5,046.2112</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.3168	0.0824	7.1210	3.7000e-004		0.0392	0.0392		0.0392	0.0392	0.0000	12.7803	12.7803	0.0125	0.0000	13.0921
Energy	0.0436	0.3730	0.1587	2.3800e-003		0.0302	0.0302		0.0302	0.0302		476.1271	476.1271	9.1300e-003	8.7300e-003	478.9564
Mobile	1.0225	5.0796	13.7359	0.0448	3.6308	0.0471	3.6779	0.9718	0.0442	1.0159		4,547.7205	4,547.7205	0.2577		4,554.1627
<b>Total</b>	<b>4.3830</b>	<b>5.5349</b>	<b>21.0155</b>	<b>0.0475</b>	<b>3.6308</b>	<b>0.1164</b>	<b>3.7472</b>	<b>0.9718</b>	<b>0.1135</b>	<b>1.0852</b>	<b>0.0000</b>	<b>5,036.6279</b>	<b>5,036.6279</b>	<b>0.2793</b>	<b>8.7300e-003</b>	<b>5,046.2112</b>

## Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

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

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/2/2019	9/27/2019	5	20	
2	Site Preparation	Site Preparation	9/28/2019	10/4/2019	5	5	
3	Grading	Grading	10/5/2019	11/4/2019	5	21	
4	Building Construction	Building Construction	10/17/2019	9/2/2020	5	230	
5	Paving	Paving	9/3/2020	9/28/2020	5	18	
6	Architectural Coating	Architectural Coating	9/29/2020	10/22/2020	5	18	

**Acres of Grading (Site Preparation Phase): 0****Acres of Grading (Grading Phase): 4****Acres of Paving: 0****Residential Indoor: 291,412; Residential Outdoor: 97,137; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 528 (Architectural Coating – sqft)****OffRoad Equipment**



## Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

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	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

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	98.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	844.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	66.00	11.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	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 - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0586	0.0000	1.0586	0.1603	0.0000	0.1603			0.0000			0.0000
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697		3,816.899 4	3,816.899 4	1.0618		3,843.445 1
<b>Total</b>	<b>3.5134</b>	<b>35.7830</b>	<b>22.0600</b>	<b>0.0388</b>	<b>1.0586</b>	<b>1.7949</b>	<b>2.8535</b>	<b>0.1603</b>	<b>1.6697</b>	<b>1.8300</b>		<b>3,816.899 4</b>	<b>3,816.899 4</b>	<b>1.0618</b>		<b>3,843.445 1</b>

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

**3.2 Demolition - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0472	1.5208	0.3416	3.8500e-003	0.0857	5.6100e-003	0.0913	0.0235	5.3700e-003	0.0289		416.4263	416.4263	0.0303		417.1835
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	0.0831	0.0610	0.6637	1.7200e-003	0.1677	1.4500e-003	0.1691	0.0445	1.3300e-003	0.0458		171.3196	171.3196	5.8900e-003		171.4670
<b>Total</b>	<b>0.1303</b>	<b>1.5818</b>	<b>1.0053</b>	<b>5.5700e-003</b>	<b>0.2533</b>	<b>7.0600e-003</b>	<b>0.2604</b>	<b>0.0680</b>	<b>6.7000e-003</b>	<b>0.0747</b>		<b>587.7460</b>	<b>587.7460</b>	<b>0.0362</b>		<b>588.6504</b>

**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					0.4764	0.0000	0.4764	0.0721	0.0000	0.0721			0.0000			0.0000
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697	0.0000	3,816.8994	3,816.8994	1.0618		3,843.4451
<b>Total</b>	<b>3.5134</b>	<b>35.7830</b>	<b>22.0600</b>	<b>0.0388</b>	<b>0.4764</b>	<b>1.7949</b>	<b>2.2713</b>	<b>0.0721</b>	<b>1.6697</b>	<b>1.7418</b>	<b>0.0000</b>	<b>3,816.8994</b>	<b>3,816.8994</b>	<b>1.0618</b>		<b>3,843.4451</b>

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

**3.2 Demolition - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0472	1.5208	0.3416	3.8500e-003	0.0857	5.6100e-003	0.0913	0.0235	5.3700e-003	0.0289		416.4263	416.4263	0.0303		417.1835
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	0.0831	0.0610	0.6637	1.7200e-003	0.1677	1.4500e-003	0.1691	0.0445	1.3300e-003	0.0458		171.3196	171.3196	5.8900e-003		171.4670
<b>Total</b>	<b>0.1303</b>	<b>1.5818</b>	<b>1.0053</b>	<b>5.5700e-003</b>	<b>0.2533</b>	<b>7.0600e-003</b>	<b>0.2604</b>	<b>0.0680</b>	<b>6.7000e-003</b>	<b>0.0747</b>		<b>587.7460</b>	<b>587.7460</b>	<b>0.0362</b>		<b>588.6504</b>

**3.3 Site Preparation - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.8330	19.0865	11.1921	0.0178		1.0569	1.0569		0.9723	0.9723		1,768.0541	1,768.0541	0.5594		1,782.0389
<b>Total</b>	<b>1.8330</b>	<b>19.0865</b>	<b>11.1921</b>	<b>0.0178</b>	<b>6.0221</b>	<b>1.0569</b>	<b>7.0789</b>	<b>3.3102</b>	<b>0.9723</b>	<b>4.2825</b>		<b>1,768.0541</b>	<b>1,768.0541</b>	<b>0.5594</b>		<b>1,782.0389</b>

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

**3.3 Site Preparation - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0997	0.0732	0.7965	2.0700e-003	0.2012	1.7300e-003	0.2029	0.0534	1.6000e-003	0.0550		205.5836	205.5836	7.0700e-003		205.7604
<b>Total</b>	<b>0.0997</b>	<b>0.0732</b>	<b>0.7965</b>	<b>2.0700e-003</b>	<b>0.2012</b>	<b>1.7300e-003</b>	<b>0.2029</b>	<b>0.0534</b>	<b>1.6000e-003</b>	<b>0.0550</b>		<b>205.5836</b>	<b>205.5836</b>	<b>7.0700e-003</b>		<b>205.7604</b>

**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					2.7099	0.0000	2.7099	1.4896	0.0000	1.4896			0.0000			0.0000
Off-Road	1.8330	19.0865	11.1921	0.0178		1.0569	1.0569		0.9723	0.9723	0.0000	1,768.0541	1,768.0541	0.5594		1,782.0389
<b>Total</b>	<b>1.8330</b>	<b>19.0865</b>	<b>11.1921</b>	<b>0.0178</b>	<b>2.7099</b>	<b>1.0569</b>	<b>3.7668</b>	<b>1.4896</b>	<b>0.9723</b>	<b>2.4619</b>	<b>0.0000</b>	<b>1,768.0541</b>	<b>1,768.0541</b>	<b>0.5594</b>		<b>1,782.0389</b>

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

**3.3 Site Preparation - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0997	0.0732	0.7965	2.0700e-003	0.2012	1.7300e-003	0.2029	0.0534	1.6000e-003	0.0550		205.5836	205.5836	7.0700e-003		205.7604
<b>Total</b>	<b>0.0997</b>	<b>0.0732</b>	<b>0.7965</b>	<b>2.0700e-003</b>	<b>0.2012</b>	<b>1.7300e-003</b>	<b>0.2029</b>	<b>0.0534</b>	<b>1.6000e-003</b>	<b>0.0550</b>		<b>205.5836</b>	<b>205.5836</b>	<b>7.0700e-003</b>		<b>205.7604</b>

**3.4 Grading - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2491	0.0000	6.2491	3.3358	0.0000	3.3358			0.0000			0.0000
Off-Road	2.5805	28.3480	16.2934	0.0297		1.3974	1.3974		1.2856	1.2856		2,936.8068	2,936.8068	0.9292		2,960.0361
<b>Total</b>	<b>2.5805</b>	<b>28.3480</b>	<b>16.2934</b>	<b>0.0297</b>	<b>6.2491</b>	<b>1.3974</b>	<b>7.6464</b>	<b>3.3358</b>	<b>1.2856</b>	<b>4.6214</b>		<b>2,936.8068</b>	<b>2,936.8068</b>	<b>0.9292</b>		<b>2,960.0361</b>

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

**3.4 Grading - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3871	12.4739	2.8019	0.0316	0.7027	0.0460	0.7487	0.1926	0.0440	0.2366		3,415.5863	3,415.5863	0.2484		3,421.7965
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	0.0831	0.0610	0.6637	1.7200e-003	0.1677	1.4500e-003	0.1691	0.0445	1.3300e-003	0.0458		171.3196	171.3196	5.8900e-003		171.4670
<b>Total</b>	<b>0.4702</b>	<b>12.5349</b>	<b>3.4656</b>	<b>0.0333</b>	<b>0.8703</b>	<b>0.0475</b>	<b>0.9178</b>	<b>0.2371</b>	<b>0.0454</b>	<b>0.2824</b>		<b>3,586.9060</b>	<b>3,586.9060</b>	<b>0.2543</b>		<b>3,593.2634</b>

**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					2.8121	0.0000	2.8121	1.5011	0.0000	1.5011			0.0000			0.0000
Off-Road	2.5805	28.3480	16.2934	0.0297		1.3974	1.3974		1.2856	1.2856	0.0000	2,936.8068	2,936.8068	0.9292		2,960.0361
<b>Total</b>	<b>2.5805</b>	<b>28.3480</b>	<b>16.2934</b>	<b>0.0297</b>	<b>2.8121</b>	<b>1.3974</b>	<b>4.2094</b>	<b>1.5011</b>	<b>1.2856</b>	<b>2.7867</b>	<b>0.0000</b>	<b>2,936.8068</b>	<b>2,936.8068</b>	<b>0.9292</b>		<b>2,960.0361</b>

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

**3.4 Grading - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3871	12.4739	2.8019	0.0316	0.7027	0.0460	0.7487	0.1926	0.0440	0.2366		3,415.5863	3,415.5863	0.2484		3,421.7965
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	0.0831	0.0610	0.6637	1.7200e-003	0.1677	1.4500e-003	0.1691	0.0445	1.3300e-003	0.0458		171.3196	171.3196	5.8900e-003		171.4670
<b>Total</b>	<b>0.4702</b>	<b>12.5349</b>	<b>3.4656</b>	<b>0.0333</b>	<b>0.8703</b>	<b>0.0475</b>	<b>0.9178</b>	<b>0.2371</b>	<b>0.0454</b>	<b>0.2824</b>		<b>3,586.9060</b>	<b>3,586.9060</b>	<b>0.2543</b>		<b>3,593.2634</b>

**3.5 Building Construction - 2019**

**Unmitigated Construction On-Site**

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



Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

**3.5 Building Construction - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0477	1.2747	0.3723	2.8000e-003	0.0704	8.2500e-003	0.0787	0.0203	7.8900e-003	0.0282		298.4048	298.4048	0.0210		298.9289
Worker	0.3655	0.2684	2.9203	7.5700e-003	0.7377	6.3600e-003	0.7441	0.1957	5.8600e-003	0.2015		753.8063	753.8063	0.0259		754.4546
<b>Total</b>	<b>0.4132</b>	<b>1.5431</b>	<b>3.2927</b>	<b>0.0104</b>	<b>0.8081</b>	<b>0.0146</b>	<b>0.8228</b>	<b>0.2159</b>	<b>0.0138</b>	<b>0.2297</b>		<b>1,052.2112</b>	<b>1,052.2112</b>	<b>0.0469</b>		<b>1,053.3835</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>	<b>0.0269</b>		<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>	<b>0.0000</b>	<b>2,591.5802</b>	<b>2,591.5802</b>	<b>0.6313</b>		<b>2,607.3635</b>

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

**3.5 Building Construction - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0477	1.2747	0.3723	2.8000e-003	0.0704	8.2500e-003	0.0787	0.0203	7.8900e-003	0.0282		298.4048	298.4048	0.0210		298.9289
Worker	0.3655	0.2684	2.9203	7.5700e-003	0.7377	6.3600e-003	0.7441	0.1957	5.8600e-003	0.2015		753.8063	753.8063	0.0259		754.4546
<b>Total</b>	<b>0.4132</b>	<b>1.5431</b>	<b>3.2927</b>	<b>0.0104</b>	<b>0.8081</b>	<b>0.0146</b>	<b>0.8228</b>	<b>0.2159</b>	<b>0.0138</b>	<b>0.2297</b>		<b>1,052.2112</b>	<b>1,052.2112</b>	<b>0.0469</b>		<b>1,053.3835</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

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

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

**3.5 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0409	1.1699	0.3381	2.7800e-003	0.0704	5.5900e-003	0.0760	0.0203	5.3500e-003	0.0256		296.3940	296.3940	0.0198		296.8895
Worker	0.3373	0.2392	2.6467	7.3400e-003	0.7377	6.1700e-003	0.7439	0.1957	5.6800e-003	0.2013		730.8975	730.8975	0.0230		731.4734
<b>Total</b>	<b>0.3782</b>	<b>1.4091</b>	<b>2.9848</b>	<b>0.0101</b>	<b>0.8081</b>	<b>0.0118</b>	<b>0.8199</b>	<b>0.2159</b>	<b>0.0110</b>	<b>0.2270</b>		<b>1,027.2914</b>	<b>1,027.2914</b>	<b>0.0429</b>		<b>1,028.3629</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
<b>Total</b>	<b>2.1198</b>	<b>19.1860</b>	<b>16.8485</b>	<b>0.0269</b>		<b>1.1171</b>	<b>1.1171</b>		<b>1.0503</b>	<b>1.0503</b>	<b>0.0000</b>	<b>2,553.0631</b>	<b>2,553.0631</b>	<b>0.6229</b>		<b>2,568.6345</b>

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

**3.5 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0409	1.1699	0.3381	2.7800e-003	0.0704	5.5900e-003	0.0760	0.0203	5.3500e-003	0.0256		296.3940	296.3940	0.0198		296.8895
Worker	0.3373	0.2392	2.6467	7.3400e-003	0.7377	6.1700e-003	0.7439	0.1957	5.6800e-003	0.2013		730.8975	730.8975	0.0230		731.4734
<b>Total</b>	<b>0.3782</b>	<b>1.4091</b>	<b>2.9848</b>	<b>0.0101</b>	<b>0.8081</b>	<b>0.0118</b>	<b>0.8199</b>	<b>0.2159</b>	<b>0.0110</b>	<b>0.2270</b>		<b>1,027.2914</b>	<b>1,027.2914</b>	<b>0.0429</b>		<b>1,028.3629</b>

**3.6 Paving - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1837	11.8015	12.2823	0.0189		0.6509	0.6509		0.6005	0.6005		1,804.7070	1,804.7070	0.5670		1,818.8830
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1837</b>	<b>11.8015</b>	<b>12.2823</b>	<b>0.0189</b>		<b>0.6509</b>	<b>0.6509</b>		<b>0.6005</b>	<b>0.6005</b>		<b>1,804.7070</b>	<b>1,804.7070</b>	<b>0.5670</b>		<b>1,818.8830</b>

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

**3.6 Paving - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586
<b>Total</b>	<b>0.1022</b>	<b>0.0725</b>	<b>0.8020</b>	<b>2.2200e-003</b>	<b>0.2236</b>	<b>1.8700e-003</b>	<b>0.2254</b>	<b>0.0593</b>	<b>1.7200e-003</b>	<b>0.0610</b>		<b>221.4841</b>	<b>221.4841</b>	<b>6.9800e-003</b>		<b>221.6586</b>

**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	1.1837	11.8015	12.2823	0.0189		0.6509	0.6509		0.6005	0.6005	0.0000	1,804.7070	1,804.7070	0.5670		1,818.8830
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1837</b>	<b>11.8015</b>	<b>12.2823</b>	<b>0.0189</b>		<b>0.6509</b>	<b>0.6509</b>		<b>0.6005</b>	<b>0.6005</b>	<b>0.0000</b>	<b>1,804.7070</b>	<b>1,804.7070</b>	<b>0.5670</b>		<b>1,818.8830</b>

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

**3.6 Paving - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586
<b>Total</b>	<b>0.1022</b>	<b>0.0725</b>	<b>0.8020</b>	<b>2.2200e-003</b>	<b>0.2236</b>	<b>1.8700e-003</b>	<b>0.2254</b>	<b>0.0593</b>	<b>1.7200e-003</b>	<b>0.0610</b>		<b>221.4841</b>	<b>221.4841</b>	<b>6.9800e-003</b>		<b>221.6586</b>

**3.7 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	50.1616					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>50.4038</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

**3.7 Architectural Coating - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0664	0.0471	0.5213	1.4500e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397		143.9647	143.9647	4.5400e-003		144.0781
<b>Total</b>	<b>0.0664</b>	<b>0.0471</b>	<b>0.5213</b>	<b>1.4500e-003</b>	<b>0.1453</b>	<b>1.2100e-003</b>	<b>0.1465</b>	<b>0.0385</b>	<b>1.1200e-003</b>	<b>0.0397</b>		<b>143.9647</b>	<b>143.9647</b>	<b>4.5400e-003</b>		<b>144.0781</b>

**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	50.1616					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>50.4038</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

**3.7 Architectural Coating - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0664	0.0471	0.5213	1.4500e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397		143.9647	143.9647	4.5400e-003		144.0781
<b>Total</b>	<b>0.0664</b>	<b>0.0471</b>	<b>0.5213</b>	<b>1.4500e-003</b>	<b>0.1453</b>	<b>1.2100e-003</b>	<b>0.1465</b>	<b>0.0385</b>	<b>1.1200e-003</b>	<b>0.0397</b>		<b>143.9647</b>	<b>143.9647</b>	<b>4.5400e-003</b>		<b>144.0781</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**



Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0225	5.0796	13.7359	0.0448	3.6308	0.0471	3.6779	0.9718	0.0442	1.0159		4,547.7205	4,547.7205	0.2577		4,554.1627
Unmitigated	1.0225	5.0796	13.7359	0.0448	3.6308	0.0471	3.6779	0.9718	0.0442	1.0159		4,547.7205	4,547.7205	0.2577		4,554.1627

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	499.66	487.62	416.24	1,660,814	1,660,814
Parking Lot	0.00	0.00	0.00		
Total	499.66	487.62	416.24	1,660,814	1,660,814

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Parking Lot	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0436	0.3730	0.1587	2.3800e-003		0.0302	0.0302		0.0302	0.0302		476.1271	476.1271	9.1300e-003	8.7300e-003	478.9564
NaturalGas Unmitigated	0.0436	0.3730	0.1587	2.3800e-003		0.0302	0.0302		0.0302	0.0302		476.1271	476.1271	9.1300e-003	8.7300e-003	478.9564

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

**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					
Condo/Townhouse	4047.08	0.0436	0.3730	0.1587	2.3800e-003		0.0302	0.0302		0.0302	0.0302		476.1271	476.1271	9.1300e-003	8.7300e-003	478.9564
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
<b>Total</b>		<b>0.0436</b>	<b>0.3730</b>	<b>0.1587</b>	<b>2.3800e-003</b>		<b>0.0302</b>	<b>0.0302</b>		<b>0.0302</b>	<b>0.0302</b>		<b>476.1271</b>	<b>476.1271</b>	<b>9.1300e-003</b>	<b>8.7300e-003</b>	<b>478.9564</b>

**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					
Condo/Townhouse	4.04708	0.0436	0.3730	0.1587	2.3800e-003		0.0302	0.0302		0.0302	0.0302		476.1271	476.1271	9.1300e-003	8.7300e-003	478.9564
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
<b>Total</b>		<b>0.0436</b>	<b>0.3730</b>	<b>0.1587</b>	<b>2.3800e-003</b>		<b>0.0302</b>	<b>0.0302</b>		<b>0.0302</b>	<b>0.0302</b>		<b>476.1271</b>	<b>476.1271</b>	<b>9.1300e-003</b>	<b>8.7300e-003</b>	<b>478.9564</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.3168	0.0824	7.1210	3.7000e-004		0.0392	0.0392		0.0392	0.0392	0.0000	12.7803	12.7803	0.0125	0.0000	13.0921
Unmitigated	3.3168	0.0824	7.1210	3.7000e-004		0.0392	0.0392		0.0392	0.0392	0.0000	12.7803	12.7803	0.0125	0.0000	13.0921

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	0.2474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2170	0.0824	7.1210	3.7000e-004		0.0392	0.0392		0.0392	0.0392		12.7803	12.7803	0.0125		13.0921
<b>Total</b>	<b>3.3168</b>	<b>0.0824</b>	<b>7.1210</b>	<b>3.7000e-004</b>		<b>0.0392</b>	<b>0.0392</b>		<b>0.0392</b>	<b>0.0392</b>	<b>0.0000</b>	<b>12.7803</b>	<b>12.7803</b>	<b>0.0125</b>	<b>0.0000</b>	<b>13.0921</b>

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

**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	0.2474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.8525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2170	0.0824	7.1210	3.7000e-004		0.0392	0.0392		0.0392	0.0392		12.7803	12.7803	0.0125		13.0921
<b>Total</b>	<b>3.3168</b>	<b>0.0824</b>	<b>7.1210</b>	<b>3.7000e-004</b>		<b>0.0392</b>	<b>0.0392</b>		<b>0.0392</b>	<b>0.0392</b>	<b>0.0000</b>	<b>12.7803</b>	<b>12.7803</b>	<b>0.0125</b>	<b>0.0000</b>	<b>13.0921</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

## Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Winter

**Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

**Live Oak Arcadia Townhomes**  
**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	22.00	Space	0.00	8,800.00	0
Condo/Townhouse	86.00	Dwelling Unit	3.62	143,907.00	260

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2020
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

Project Characteristics -

Land Use - 3.62 ac lot for all uses. 143,907 sf res. Gross pop. 260

Construction Phase - grading 21 days

Off-road Equipment -

Off-road Equipment - 1 dozer. 3 backhoe

Trips and VMT - 844 haul trips (422 trips each way)

Demolition - 21,509 sf demo two buildings, awnings, sheds

Grading - 4,637 cy import

Vehicle Trips - Parking is for residential project only.

Woodstoves - No Hearths

Construction Off-road Equipment Mitigation -

Off-road Equipment -



## Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	8.00	21.00
tblConstructionPhase	PhaseEndDate	10/16/2019	11/4/2019
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	73.10	0.00
tblFireplaces	NumberNoFireplace	8.60	0.00
tblFireplaces	NumberWood	4.30	0.00
tblGrading	AcresOfGrading	10.50	4.00
tblGrading	MaterialImported	0.00	4,637.00
tblLandUse	LandUseSquareFeet	86,000.00	143,907.00
tblLandUse	LotAcreage	0.20	0.00
tblLandUse	LotAcreage	5.38	3.62
tblLandUse	Population	246.00	260.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	3.00
tblTripsAndVMT	HaulingTripNumber	580.00	844.00
tblTripsAndVMT	WorkerTripNumber	10.00	18.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblWoodstoves	NumberCatalytic	4.30	0.00
tblWoodstoves	NumberNoncatalytic	4.30	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.1470	1.4654	1.0212	2.1700e-003	0.1246	0.0711	0.1957	0.0539	0.0663	0.1202	0.0000	196.6756	196.6756	0.0391	0.0000	197.6524
2020	0.6825	1.9374	1.8894	3.5000e-003	0.0730	0.1062	0.1792	0.0195	0.0998	0.1194	0.0000	307.2506	307.2506	0.0580	0.0000	308.7013
<b>Maximum</b>	<b>0.6825</b>	<b>1.9374</b>	<b>1.8894</b>	<b>3.5000e-003</b>	<b>0.1246</b>	<b>0.1062</b>	<b>0.1957</b>	<b>0.0539</b>	<b>0.0998</b>	<b>0.1202</b>	<b>0.0000</b>	<b>307.2506</b>	<b>307.2506</b>	<b>0.0580</b>	<b>0.0000</b>	<b>308.7013</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.1470	1.4654	1.0212	2.1700e-003	0.0744	0.0711	0.1455	0.0292	0.0663	0.0955	0.0000	196.6755	196.6755	0.0391	0.0000	197.6523
2020	0.6825	1.9374	1.8894	3.5000e-003	0.0730	0.1062	0.1792	0.0195	0.0998	0.1194	0.0000	307.2504	307.2504	0.0580	0.0000	308.7010
<b>Maximum</b>	<b>0.6825</b>	<b>1.9374</b>	<b>1.8894</b>	<b>3.5000e-003</b>	<b>0.0744</b>	<b>0.1062</b>	<b>0.1792</b>	<b>0.0292</b>	<b>0.0998</b>	<b>0.1194</b>	<b>0.0000</b>	<b>307.2504</b>	<b>307.2504</b>	<b>0.0580</b>	<b>0.0000</b>	<b>308.7010</b>

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	25.40	0.00	13.39	33.65	0.00	10.31	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-2-2019	12-1-2019	1.3368	1.3368
2	12-2-2019	3-1-2020	0.7752	0.7752
3	3-2-2020	6-1-2020	0.7575	0.7575
4	6-2-2020	9-1-2020	0.7569	0.7569
5	9-2-2020	9-30-2020	0.1675	0.1675
		Highest	1.3368	1.3368

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	0.5929	0.0103	0.8901	5.0000e-005		4.8900e-003	4.8900e-003		4.8900e-003	4.8900e-003	0.0000	1.4493	1.4493	1.4100e-003	0.0000	1.4846
Energy	7.9700e-003	0.0681	0.0290	4.3000e-004		5.5000e-003	5.5000e-003		5.5000e-003	5.5000e-003	0.0000	217.9112	217.9112	7.2500e-003	2.6300e-003	218.8772
Mobile	0.1769	0.9163	2.4667	8.0300e-003	0.6304	8.3100e-003	0.6387	0.1690	7.7900e-003	0.1768	0.0000	740.6061	740.6061	0.0413	0.0000	741.6377
Waste						0.0000	0.0000		0.0000	0.0000	8.0303	0.0000	8.0303	0.4746	0.0000	19.8948
Water						0.0000	0.0000		0.0000	0.0000	1.7777	35.7512	37.5288	0.1841	4.6200e-003	43.5060
<b>Total</b>	<b>0.7777</b>	<b>0.9947</b>	<b>3.3857</b>	<b>8.5100e-003</b>	<b>0.6304</b>	<b>0.0187</b>	<b>0.6491</b>	<b>0.1690</b>	<b>0.0182</b>	<b>0.1872</b>	<b>9.8080</b>	<b>995.7176</b>	<b>1,005.5256</b>	<b>0.7086</b>	<b>7.2500e-003</b>	<b>1,025.4002</b>

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

**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	0.5929	0.0103	0.8901	5.0000e-005		4.8900e-003	4.8900e-003		4.8900e-003	4.8900e-003	0.0000	1.4493	1.4493	1.4100e-003	0.0000	1.4846
Energy	7.9700e-003	0.0681	0.0290	4.3000e-004		5.5000e-003	5.5000e-003		5.5000e-003	5.5000e-003	0.0000	217.9112	217.9112	7.2500e-003	2.6300e-003	218.8772
Mobile	0.1769	0.9163	2.4667	8.0300e-003	0.6304	8.3100e-003	0.6387	0.1690	7.7900e-003	0.1768	0.0000	740.6061	740.6061	0.0413	0.0000	741.6377
Waste						0.0000	0.0000		0.0000	0.0000	8.0303	0.0000	8.0303	0.4746	0.0000	19.8948
Water						0.0000	0.0000		0.0000	0.0000	1.7777	35.7512	37.5288	0.1841	4.6200e-003	43.5060
<b>Total</b>	<b>0.7777</b>	<b>0.9947</b>	<b>3.3857</b>	<b>8.5100e-003</b>	<b>0.6304</b>	<b>0.0187</b>	<b>0.6491</b>	<b>0.1690</b>	<b>0.0182</b>	<b>0.1872</b>	<b>9.8080</b>	<b>995.7176</b>	<b>1,005.5256</b>	<b>0.7086</b>	<b>7.2500e-003</b>	<b>1,025.4002</b>

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

**3.0 Construction Detail**

**Construction Phase**

## Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/2/2019	9/27/2019	5	20	
2	Site Preparation	Site Preparation	9/28/2019	10/4/2019	5	5	
3	Grading	Grading	10/5/2019	11/4/2019	5	21	
4	Building Construction	Building Construction	10/17/2019	9/2/2020	5	230	
5	Paving	Paving	9/3/2020	9/28/2020	5	18	
6	Architectural Coating	Architectural Coating	9/29/2020	10/22/2020	5	18	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 4**

**Acres of Paving: 0**

**Residential Indoor: 291,412; Residential Outdoor: 97,137; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 528 (Architectural Coating – sqft)**

**OffRoad Equipment**

## Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

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	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

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	98.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	844.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	66.00	11.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	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 - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0106	0.0000	0.0106	1.6000e-003	0.0000	1.6000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0351	0.3578	0.2206	3.9000e-004		0.0180	0.0180		0.0167	0.0167	0.0000	34.6263	34.6263	9.6300e-003	0.0000	34.8672
<b>Total</b>	<b>0.0351</b>	<b>0.3578</b>	<b>0.2206</b>	<b>3.9000e-004</b>	<b>0.0106</b>	<b>0.0180</b>	<b>0.0285</b>	<b>1.6000e-003</b>	<b>0.0167</b>	<b>0.0183</b>	<b>0.0000</b>	<b>34.6263</b>	<b>34.6263</b>	<b>9.6300e-003</b>	<b>0.0000</b>	<b>34.8672</b>

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

**3.2 Demolition - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.7000e-004	0.0155	3.2900e-003	4.0000e-005	8.4000e-004	6.0000e-005	9.0000e-004	2.3000e-004	5.0000e-005	2.8000e-004	0.0000	3.8156	3.8156	2.7000e-004	0.0000	3.8223
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	6.3000e-004	6.8100e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.5800	1.5800	5.0000e-005	0.0000	1.5814
<b>Total</b>	<b>1.2200e-003</b>	<b>0.0161</b>	<b>0.0101</b>	<b>6.0000e-005</b>	<b>2.4800e-003</b>	<b>7.0000e-005</b>	<b>2.5600e-003</b>	<b>6.7000e-004</b>	<b>6.0000e-005</b>	<b>7.3000e-004</b>	<b>0.0000</b>	<b>5.3956</b>	<b>5.3956</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>5.4037</b>

**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					4.7600e-003	0.0000	4.7600e-003	7.2000e-004	0.0000	7.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0351	0.3578	0.2206	3.9000e-004		0.0180	0.0180		0.0167	0.0167	0.0000	34.6263	34.6263	9.6300e-003	0.0000	34.8671
<b>Total</b>	<b>0.0351</b>	<b>0.3578</b>	<b>0.2206</b>	<b>3.9000e-004</b>	<b>4.7600e-003</b>	<b>0.0180</b>	<b>0.0227</b>	<b>7.2000e-004</b>	<b>0.0167</b>	<b>0.0174</b>	<b>0.0000</b>	<b>34.6263</b>	<b>34.6263</b>	<b>9.6300e-003</b>	<b>0.0000</b>	<b>34.8671</b>



Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

**3.2 Demolition - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.7000e-004	0.0155	3.2900e-003	4.0000e-005	8.4000e-004	6.0000e-005	9.0000e-004	2.3000e-004	5.0000e-005	2.8000e-004	0.0000	3.8156	3.8156	2.7000e-004	0.0000	3.8223
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	6.3000e-004	6.8100e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.5800	1.5800	5.0000e-005	0.0000	1.5814
<b>Total</b>	<b>1.2200e-003</b>	<b>0.0161</b>	<b>0.0101</b>	<b>6.0000e-005</b>	<b>2.4800e-003</b>	<b>7.0000e-005</b>	<b>2.5600e-003</b>	<b>6.7000e-004</b>	<b>6.0000e-005</b>	<b>7.3000e-004</b>	<b>0.0000</b>	<b>5.3956</b>	<b>5.3956</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>5.4037</b>

**3.3 Site Preparation - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0151	0.0000	0.0151	8.2800e-003	0.0000	8.2800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5800e-003	0.0477	0.0280	4.0000e-005		2.6400e-003	2.6400e-003		2.4300e-003	2.4300e-003	0.0000	4.0099	4.0099	1.2700e-003	0.0000	4.0416
<b>Total</b>	<b>4.5800e-003</b>	<b>0.0477</b>	<b>0.0280</b>	<b>4.0000e-005</b>	<b>0.0151</b>	<b>2.6400e-003</b>	<b>0.0177</b>	<b>8.2800e-003</b>	<b>2.4300e-003</b>	<b>0.0107</b>	<b>0.0000</b>	<b>4.0099</b>	<b>4.0099</b>	<b>1.2700e-003</b>	<b>0.0000</b>	<b>4.0416</b>

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

**3.3 Site Preparation - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.9000e-004	2.0400e-003	1.0000e-005	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4740	0.4740	2.0000e-005	0.0000	0.4744
<b>Total</b>	<b>2.3000e-004</b>	<b>1.9000e-004</b>	<b>2.0400e-003</b>	<b>1.0000e-005</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4740</b>	<b>0.4740</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4744</b>

**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					6.7700e-003	0.0000	6.7700e-003	3.7200e-003	0.0000	3.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5800e-003	0.0477	0.0280	4.0000e-005		2.6400e-003	2.6400e-003		2.4300e-003	2.4300e-003	0.0000	4.0099	4.0099	1.2700e-003	0.0000	4.0416
<b>Total</b>	<b>4.5800e-003</b>	<b>0.0477</b>	<b>0.0280</b>	<b>4.0000e-005</b>	<b>6.7700e-003</b>	<b>2.6400e-003</b>	<b>9.4100e-003</b>	<b>3.7200e-003</b>	<b>2.4300e-003</b>	<b>6.1500e-003</b>	<b>0.0000</b>	<b>4.0099</b>	<b>4.0099</b>	<b>1.2700e-003</b>	<b>0.0000</b>	<b>4.0416</b>

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

**3.3 Site Preparation - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.9000e-004	2.0400e-003	1.0000e-005	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4740	0.4740	2.0000e-005	0.0000	0.4744
<b>Total</b>	<b>2.3000e-004</b>	<b>1.9000e-004</b>	<b>2.0400e-003</b>	<b>1.0000e-005</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4740</b>	<b>0.4740</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4744</b>

**3.4 Grading - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0656	0.0000	0.0656	0.0350	0.0000	0.0350	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0271	0.2977	0.1711	3.1000e-004		0.0147	0.0147		0.0135	0.0135	0.0000	27.9744	27.9744	8.8500e-003	0.0000	28.1957
<b>Total</b>	<b>0.0271</b>	<b>0.2977</b>	<b>0.1711</b>	<b>3.1000e-004</b>	<b>0.0656</b>	<b>0.0147</b>	<b>0.0803</b>	<b>0.0350</b>	<b>0.0135</b>	<b>0.0485</b>	<b>0.0000</b>	<b>27.9744</b>	<b>27.9744</b>	<b>8.8500e-003</b>	<b>0.0000</b>	<b>28.1957</b>

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

**3.4 Grading - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0100e-003	0.1336	0.0284	3.3000e-004	7.2500e-003	4.8000e-004	7.7300e-003	1.9900e-003	4.6000e-004	2.4500e-003	0.0000	32.8605	32.8605	2.3200e-003	0.0000	32.9185
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9000e-004	6.6000e-004	7.1500e-003	2.0000e-005	1.7300e-003	2.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.6590	1.6590	6.0000e-005	0.0000	1.6605
<b>Total</b>	<b>4.8000e-003</b>	<b>0.1342</b>	<b>0.0355</b>	<b>3.5000e-004</b>	<b>8.9800e-003</b>	<b>5.0000e-004</b>	<b>9.4700e-003</b>	<b>2.4500e-003</b>	<b>4.7000e-004</b>	<b>2.9200e-003</b>	<b>0.0000</b>	<b>34.5196</b>	<b>34.5196</b>	<b>2.3800e-003</b>	<b>0.0000</b>	<b>34.5789</b>

**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					0.0295	0.0000	0.0295	0.0158	0.0000	0.0158	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0271	0.2977	0.1711	3.1000e-004		0.0147	0.0147		0.0135	0.0135	0.0000	27.9743	27.9743	8.8500e-003	0.0000	28.1956
<b>Total</b>	<b>0.0271</b>	<b>0.2977</b>	<b>0.1711</b>	<b>3.1000e-004</b>	<b>0.0295</b>	<b>0.0147</b>	<b>0.0442</b>	<b>0.0158</b>	<b>0.0135</b>	<b>0.0293</b>	<b>0.0000</b>	<b>27.9743</b>	<b>27.9743</b>	<b>8.8500e-003</b>	<b>0.0000</b>	<b>28.1956</b>

## Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

**3.4 Grading - 2019****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0100e-003	0.1336	0.0284	3.3000e-004	7.2500e-003	4.8000e-004	7.7300e-003	1.9900e-003	4.6000e-004	2.4500e-003	0.0000	32.8605	32.8605	2.3200e-003	0.0000	32.9185
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9000e-004	6.6000e-004	7.1500e-003	2.0000e-005	1.7300e-003	2.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.6590	1.6590	6.0000e-005	0.0000	1.6605
<b>Total</b>	<b>4.8000e-003</b>	<b>0.1342</b>	<b>0.0355</b>	<b>3.5000e-004</b>	<b>8.9800e-003</b>	<b>5.0000e-004</b>	<b>9.4700e-003</b>	<b>2.4500e-003</b>	<b>4.7000e-004</b>	<b>2.9200e-003</b>	<b>0.0000</b>	<b>34.5196</b>	<b>34.5196</b>	<b>2.3800e-003</b>	<b>0.0000</b>	<b>34.5789</b>

**3.5 Building Construction - 2019****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0638	0.5691	0.4634	7.3000e-004		0.0348	0.0348		0.0327	0.0327	0.0000	63.4781	63.4781	0.0155	0.0000	63.8647
<b>Total</b>	<b>0.0638</b>	<b>0.5691</b>	<b>0.4634</b>	<b>7.3000e-004</b>		<b>0.0348</b>	<b>0.0348</b>		<b>0.0327</b>	<b>0.0327</b>	<b>0.0000</b>	<b>63.4781</b>	<b>63.4781</b>	<b>0.0155</b>	<b>0.0000</b>	<b>63.8647</b>

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

**3.5 Building Construction - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2600e-003	0.0351	9.5900e-003	8.0000e-005	1.8700e-003	2.2000e-004	2.0900e-003	5.4000e-004	2.1000e-004	7.5000e-004	0.0000	7.4269	7.4269	5.0000e-004	0.0000	7.4393
Worker	8.9300e-003	7.4400e-003	0.0809	2.1000e-004	0.0195	1.7000e-004	0.0197	5.1900e-003	1.6000e-004	5.3400e-003	0.0000	18.7708	18.7708	6.5000e-004	0.0000	18.7870
<b>Total</b>	<b>0.0102</b>	<b>0.0425</b>	<b>0.0905</b>	<b>2.9000e-004</b>	<b>0.0214</b>	<b>3.9000e-004</b>	<b>0.0218</b>	<b>5.7300e-003</b>	<b>3.7000e-004</b>	<b>6.0900e-003</b>	<b>0.0000</b>	<b>26.1978</b>	<b>26.1978</b>	<b>1.1500e-003</b>	<b>0.0000</b>	<b>26.2263</b>

**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	0.0638	0.5691	0.4634	7.3000e-004		0.0348	0.0348		0.0327	0.0327	0.0000	63.4781	63.4781	0.0155	0.0000	63.8647
<b>Total</b>	<b>0.0638</b>	<b>0.5691</b>	<b>0.4634</b>	<b>7.3000e-004</b>		<b>0.0348</b>	<b>0.0348</b>		<b>0.0327</b>	<b>0.0327</b>	<b>0.0000</b>	<b>63.4781</b>	<b>63.4781</b>	<b>0.0155</b>	<b>0.0000</b>	<b>63.8647</b>

## Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

**3.5 Building Construction - 2019****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2600e-003	0.0351	9.5900e-003	8.0000e-005	1.8700e-003	2.2000e-004	2.0900e-003	5.4000e-004	2.1000e-004	7.5000e-004	0.0000	7.4269	7.4269	5.0000e-004	0.0000	7.4393
Worker	8.9300e-003	7.4400e-003	0.0809	2.1000e-004	0.0195	1.7000e-004	0.0197	5.1900e-003	1.6000e-004	5.3400e-003	0.0000	18.7708	18.7708	6.5000e-004	0.0000	18.7870
<b>Total</b>	<b>0.0102</b>	<b>0.0425</b>	<b>0.0905</b>	<b>2.9000e-004</b>	<b>0.0214</b>	<b>3.9000e-004</b>	<b>0.0218</b>	<b>5.7300e-003</b>	<b>3.7000e-004</b>	<b>6.0900e-003</b>	<b>0.0000</b>	<b>26.1978</b>	<b>26.1978</b>	<b>1.1500e-003</b>	<b>0.0000</b>	<b>26.2263</b>

**3.5 Building Construction - 2020****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1866	1.6884	1.4827	2.3700e-003		0.0983	0.0983		0.0924	0.0924	0.0000	203.8168	203.8168	0.0497	0.0000	205.0599
<b>Total</b>	<b>0.1866</b>	<b>1.6884</b>	<b>1.4827</b>	<b>2.3700e-003</b>		<b>0.0983</b>	<b>0.0983</b>		<b>0.0924</b>	<b>0.0924</b>	<b>0.0000</b>	<b>203.8168</b>	<b>203.8168</b>	<b>0.0497</b>	<b>0.0000</b>	<b>205.0599</b>

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

**3.5 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5100e-003	0.1049	0.0284	2.5000e-004	6.1000e-003	4.9000e-004	6.5900e-003	1.7600e-003	4.7000e-004	2.2300e-003	0.0000	24.0477	24.0477	1.5300e-003	0.0000	24.0859
Worker	0.0268	0.0216	0.2391	6.6000e-004	0.0636	5.4000e-004	0.0642	0.0169	5.0000e-004	0.0174	0.0000	59.3200	59.3200	1.8700e-003	0.0000	59.3668
<b>Total</b>	<b>0.0303</b>	<b>0.1265</b>	<b>0.2675</b>	<b>9.1000e-004</b>	<b>0.0697</b>	<b>1.0300e-003</b>	<b>0.0708</b>	<b>0.0187</b>	<b>9.7000e-004</b>	<b>0.0196</b>	<b>0.0000</b>	<b>83.3677</b>	<b>83.3677</b>	<b>3.4000e-003</b>	<b>0.0000</b>	<b>83.4526</b>

**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	0.1866	1.6884	1.4827	2.3700e-003		0.0983	0.0983		0.0924	0.0924	0.0000	203.8165	203.8165	0.0497	0.0000	205.0596
<b>Total</b>	<b>0.1866</b>	<b>1.6884</b>	<b>1.4827</b>	<b>2.3700e-003</b>		<b>0.0983</b>	<b>0.0983</b>		<b>0.0924</b>	<b>0.0924</b>	<b>0.0000</b>	<b>203.8165</b>	<b>203.8165</b>	<b>0.0497</b>	<b>0.0000</b>	<b>205.0596</b>



Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

**3.5 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5100e-003	0.1049	0.0284	2.5000e-004	6.1000e-003	4.9000e-004	6.5900e-003	1.7600e-003	4.7000e-004	2.2300e-003	0.0000	24.0477	24.0477	1.5300e-003	0.0000	24.0859
Worker	0.0268	0.0216	0.2391	6.6000e-004	0.0636	5.4000e-004	0.0642	0.0169	5.0000e-004	0.0174	0.0000	59.3200	59.3200	1.8700e-003	0.0000	59.3668
<b>Total</b>	<b>0.0303</b>	<b>0.1265</b>	<b>0.2675</b>	<b>9.1000e-004</b>	<b>0.0697</b>	<b>1.0300e-003</b>	<b>0.0708</b>	<b>0.0187</b>	<b>9.7000e-004</b>	<b>0.0196</b>	<b>0.0000</b>	<b>83.3677</b>	<b>83.3677</b>	<b>3.4000e-003</b>	<b>0.0000</b>	<b>83.4526</b>

**3.6 Paving - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0107	0.1062	0.1105	1.7000e-004		5.8600e-003	5.8600e-003		5.4000e-003	5.4000e-003	0.0000	14.7348	14.7348	4.6300e-003	0.0000	14.8506
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0107</b>	<b>0.1062</b>	<b>0.1105</b>	<b>1.7000e-004</b>		<b>5.8600e-003</b>	<b>5.8600e-003</b>		<b>5.4000e-003</b>	<b>5.4000e-003</b>	<b>0.0000</b>	<b>14.7348</b>	<b>14.7348</b>	<b>4.6300e-003</b>	<b>0.0000</b>	<b>14.8506</b>

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

**3.6 Paving - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	8.3000e-004	6.7000e-004	7.4100e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.8384	1.8384	6.0000e-005	0.0000	1.8399
<b>Total</b>	<b>8.3000e-004</b>	<b>6.7000e-004</b>	<b>7.4100e-003</b>	<b>2.0000e-005</b>	<b>1.9700e-003</b>	<b>2.0000e-005</b>	<b>1.9900e-003</b>	<b>5.2000e-004</b>	<b>2.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.8384</b>	<b>1.8384</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.8399</b>

**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	0.0107	0.1062	0.1105	1.7000e-004		5.8600e-003	5.8600e-003		5.4000e-003	5.4000e-003	0.0000	14.7348	14.7348	4.6300e-003	0.0000	14.8506
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0107</b>	<b>0.1062</b>	<b>0.1105</b>	<b>1.7000e-004</b>		<b>5.8600e-003</b>	<b>5.8600e-003</b>		<b>5.4000e-003</b>	<b>5.4000e-003</b>	<b>0.0000</b>	<b>14.7348</b>	<b>14.7348</b>	<b>4.6300e-003</b>	<b>0.0000</b>	<b>14.8506</b>

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

**3.6 Paving - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	6.7000e-004	7.4100e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.8384	1.8384	6.0000e-005	0.0000	1.8399
<b>Total</b>	<b>8.3000e-004</b>	<b>6.7000e-004</b>	<b>7.4100e-003</b>	<b>2.0000e-005</b>	<b>1.9700e-003</b>	<b>2.0000e-005</b>	<b>1.9900e-003</b>	<b>5.2000e-004</b>	<b>2.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.8384</b>	<b>1.8384</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.8399</b>

**3.7 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4515					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1800e-003	0.0152	0.0165	3.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	2.2979	2.2979	1.8000e-004	0.0000	2.3024
<b>Total</b>	<b>0.4536</b>	<b>0.0152</b>	<b>0.0165</b>	<b>3.0000e-005</b>		<b>1.0000e-003</b>	<b>1.0000e-003</b>		<b>1.0000e-003</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>2.2979</b>	<b>2.2979</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>2.3024</b>

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

**3.7 Architectural Coating - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	4.4000e-004	4.8200e-003	1.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1950	1.1950	4.0000e-005	0.0000	1.1959
<b>Total</b>	<b>5.4000e-004</b>	<b>4.4000e-004</b>	<b>4.8200e-003</b>	<b>1.0000e-005</b>	<b>1.2800e-003</b>	<b>1.0000e-005</b>	<b>1.2900e-003</b>	<b>3.4000e-004</b>	<b>1.0000e-005</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.1950</b>	<b>1.1950</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.1959</b>

**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	0.4515					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1800e-003	0.0152	0.0165	3.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003	0.0000	2.2979	2.2979	1.8000e-004	0.0000	2.3024
<b>Total</b>	<b>0.4536</b>	<b>0.0152</b>	<b>0.0165</b>	<b>3.0000e-005</b>		<b>1.0000e-003</b>	<b>1.0000e-003</b>		<b>1.0000e-003</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>2.2979</b>	<b>2.2979</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>2.3024</b>

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

**3.7 Architectural Coating - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	4.4000e-004	4.8200e-003	1.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1950	1.1950	4.0000e-005	0.0000	1.1959
<b>Total</b>	<b>5.4000e-004</b>	<b>4.4000e-004</b>	<b>4.8200e-003</b>	<b>1.0000e-005</b>	<b>1.2800e-003</b>	<b>1.0000e-005</b>	<b>1.2900e-003</b>	<b>3.4000e-004</b>	<b>1.0000e-005</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.1950</b>	<b>1.1950</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.1959</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1769	0.9163	2.4667	8.0300e-003	0.6304	8.3100e-003	0.6387	0.1690	7.7900e-003	0.1768	0.0000	740.6061	740.6061	0.0413	0.0000	741.6377
Unmitigated	0.1769	0.9163	2.4667	8.0300e-003	0.6304	8.3100e-003	0.6387	0.1690	7.7900e-003	0.1768	0.0000	740.6061	740.6061	0.0413	0.0000	741.6377

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	499.66	487.62	416.24	1,660,814	1,660,814
Parking Lot	0.00	0.00	0.00		
Total	499.66	487.62	416.24	1,660,814	1,660,814

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Parking Lot	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	139.0830	139.0830	5.7400e-003	1.1900e-003	139.5806
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	139.0830	139.0830	5.7400e-003	1.1900e-003	139.5806
NaturalGas Mitigated	7.9700e-003	0.0681	0.0290	4.3000e-004		5.5000e-003	5.5000e-003		5.5000e-003	5.5000e-003	0.0000	78.8282	78.8282	1.5100e-003	1.4500e-003	79.2966
NaturalGas Unmitigated	7.9700e-003	0.0681	0.0290	4.3000e-004		5.5000e-003	5.5000e-003		5.5000e-003	5.5000e-003	0.0000	78.8282	78.8282	1.5100e-003	1.4500e-003	79.2966

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

**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					
Condo/Townhouse	1.47718e+006	7.9700e-003	0.0681	0.0290	4.3000e-004		5.5000e-003	5.5000e-003		5.5000e-003	5.5000e-003	0.0000	78.8282	78.8282	1.5100e-003	1.4500e-003	79.2966
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
<b>Total</b>		<b>7.9700e-003</b>	<b>0.0681</b>	<b>0.0290</b>	<b>4.3000e-004</b>		<b>5.5000e-003</b>	<b>5.5000e-003</b>		<b>5.5000e-003</b>	<b>5.5000e-003</b>	<b>0.0000</b>	<b>78.8282</b>	<b>78.8282</b>	<b>1.5100e-003</b>	<b>1.4500e-003</b>	<b>79.2966</b>

**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					
Condo/Townhouse	1.47718e+006	7.9700e-003	0.0681	0.0290	4.3000e-004		5.5000e-003	5.5000e-003		5.5000e-003	5.5000e-003	0.0000	78.8282	78.8282	1.5100e-003	1.4500e-003	79.2966
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
<b>Total</b>		<b>7.9700e-003</b>	<b>0.0681</b>	<b>0.0290</b>	<b>4.3000e-004</b>		<b>5.5000e-003</b>	<b>5.5000e-003</b>		<b>5.5000e-003</b>	<b>5.5000e-003</b>	<b>0.0000</b>	<b>78.8282</b>	<b>78.8282</b>	<b>1.5100e-003</b>	<b>1.4500e-003</b>	<b>79.2966</b>



Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	433435	138.1016	5.7000e-003	1.1800e-003	138.5957
Parking Lot	3080	0.9814	4.0000e-005	1.0000e-005	0.9849
<b>Total</b>		<b>139.0830</b>	<b>5.7400e-003</b>	<b>1.1900e-003</b>	<b>139.5806</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	433435	138.1016	5.7000e-003	1.1800e-003	138.5957
Parking Lot	3080	0.9814	4.0000e-005	1.0000e-005	0.9849
<b>Total</b>		<b>139.0830</b>	<b>5.7400e-003</b>	<b>1.1900e-003</b>	<b>139.5806</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5929	0.0103	0.8901	5.0000e-005		4.8900e-003	4.8900e-003		4.8900e-003	4.8900e-003	0.0000	1.4493	1.4493	1.4100e-003	0.0000	1.4846
Unmitigated	0.5929	0.0103	0.8901	5.0000e-005		4.8900e-003	4.8900e-003		4.8900e-003	4.8900e-003	0.0000	1.4493	1.4493	1.4100e-003	0.0000	1.4846

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	0.0452					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5206					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0271	0.0103	0.8901	5.0000e-005		4.8900e-003	4.8900e-003		4.8900e-003	4.8900e-003	0.0000	1.4493	1.4493	1.4100e-003	0.0000	1.4846
<b>Total</b>	<b>0.5929</b>	<b>0.0103</b>	<b>0.8901</b>	<b>5.0000e-005</b>		<b>4.8900e-003</b>	<b>4.8900e-003</b>		<b>4.8900e-003</b>	<b>4.8900e-003</b>	<b>0.0000</b>	<b>1.4493</b>	<b>1.4493</b>	<b>1.4100e-003</b>	<b>0.0000</b>	<b>1.4846</b>

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

**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	0.0452					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5206					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0271	0.0103	0.8901	5.0000e-005		4.8900e-003	4.8900e-003		4.8900e-003	4.8900e-003	0.0000	1.4493	1.4493	1.4100e-003	0.0000	1.4846
<b>Total</b>	<b>0.5929</b>	<b>0.0103</b>	<b>0.8901</b>	<b>5.0000e-005</b>		<b>4.8900e-003</b>	<b>4.8900e-003</b>		<b>4.8900e-003</b>	<b>4.8900e-003</b>	<b>0.0000</b>	<b>1.4493</b>	<b>1.4493</b>	<b>1.4100e-003</b>	<b>0.0000</b>	<b>1.4846</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	37.5288	0.1841	4.6200e-003	43.5060
Unmitigated	37.5288	0.1841	4.6200e-003	43.5060

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	5.60325 / 3.53248	37.5288	0.1841	4.6200e-003	43.5060
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>37.5288</b>	<b>0.1841</b>	<b>4.6200e-003</b>	<b>43.5060</b>

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	5.60325 / 3.53248	37.5288	0.1841	4.6200e-003	43.5060
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>37.5288</b>	<b>0.1841</b>	<b>4.6200e-003</b>	<b>43.5060</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	8.0303	0.4746	0.0000	19.8948
Unmitigated	8.0303	0.4746	0.0000	19.8948

Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	39.56	8.0303	0.4746	0.0000	19.8948
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>8.0303</b>	<b>0.4746</b>	<b>0.0000</b>	<b>19.8948</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	39.56	8.0303	0.4746	0.0000	19.8948
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>8.0303</b>	<b>0.4746</b>	<b>0.0000</b>	<b>19.8948</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Live Oak Arcadia Townhomes - Los Angeles-South Coast County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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**CNDDDB / CNPS  
Literature Search Results**

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**APPENDIX B**





# Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database



Query Criteria: Quad (El Monte (3411811) OR Pasadena (3411822) OR Mt. Wilson (3411821) OR Azusa (3411728) OR Los Angeles (3411812) OR Baldwin Park (3411718) OR South Gate (3311882) OR Whittier (3311881) OR La Habra (3311788))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Accipiter cooperii</i> Cooper's hawk	ABNKC12040	None	None	G5	S4	WL
<i>Aimophila ruficeps canescens</i> southern California rufous-crowned sparrow	ABPBX91091	None	None	G5T3	S3	WL
<i>Ammodramus savannarum</i> grasshopper sparrow	ABPBXA0020	None	None	G5	S3	SSC
<i>Anaxyrus californicus</i> arroyo toad	AAABB01230	Endangered	None	G2G3	S2S3	SSC
<i>Anniella stebbinsi</i> southern California legless lizard	ARACC01060	None	None	G3	S3	SSC
<i>Antrozous pallidus</i> pallid bat	AMACC10010	None	None	G5	S3	SSC
<i>Arctostaphylos glandulosa ssp. gabrielensis</i> San Gabriel manzanita	PDERI042P0	None	None	G5T3	S3	1B.2
<i>Arizona elegans occidentalis</i> California glossy snake	ARADB01017	None	None	G5T2	S2	SSC
<i>Aspidoscelis tigris stejnegeri</i> coastal whiptail	ARACJ02143	None	None	G5T5	S3	SSC
<i>Astragalus brauntonii</i> Braunton's milk-vetch	PDFAB0F1G0	Endangered	None	G2	S2	1B.1
<i>Athene cunicularia</i> burrowing owl	ABNSB10010	None	None	G4	S3	SSC
<i>Atriplex parishii</i> Parish's brittle scale	PDCHE041D0	None	None	G1G2	S1	1B.1
<i>Atriplex serenana var. davidsonii</i> Davidson's salt scale	PDCHE041T1	None	None	G5T1	S1	1B.2
<i>Berberis nevii</i> Nevin's barberry	PDBER060A0	Endangered	Endangered	G1	S1	1B.1
<i>Bombus crotchii</i> Crotch bumble bee	IIHYM24480	None	None	G3G4	S1S2	
<i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070	None	Threatened	G5	S3	
<i>California macrophylla</i> round-leaved filaree	PDGER01070	None	None	G3?	S3?	1B.2
<i>California Walnut Woodland</i> California Walnut Woodland	CTT71210CA	None	None	G2	S2.1	
<i>Calochortus clavatus var. gracilis</i> slender mariposa-lily	PMLIL0D096	None	None	G4T2T3	S2S3	1B.2



Selected Elements by Scientific Name  
California Department of Fish and Wildlife  
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<b><i>Calochortus plummerae</i></b> Plummer's mariposa-lily	PMLIL0D150	None	None	G4	S4	4.2
<b><i>Calochortus weedii</i> var. <i>intermedius</i></b> intermediate mariposa-lily	PMLIL0D1J1	None	None	G3G4T2	S2	1B.2
<b><i>Calystegia felix</i></b> lucky morning-glory	PDCON040P0	None	None	GHQ	SH	3.1
<b><i>Campylorhynchus brunneicapillus sandiegensis</i></b> coastal cactus wren	ABPBG02095	None	None	G5T3Q	S3	SSC
<b><i>Canyon Live Oak Ravine Forest</i></b> Canyon Live Oak Ravine Forest	CTT61350CA	None	None	G3	S3.3	
<b><i>Catostomus santaanae</i></b> Santa Ana sucker	AFCJC02190	Threatened	None	G1	S1	
<b><i>Centromadia parryi</i> ssp. <i>australis</i></b> southern tarplant	PDAST4R0P4	None	None	G3T2	S2	1B.1
<b><i>Centromadia pungens</i> ssp. <i>laevis</i></b> smooth tarplant	PDAST4R0R4	None	None	G3G4T2	S2	1B.1
<b><i>Chorizanthe parryi</i> var. <i>parryi</i></b> Parry's spineflower	PDPGN040J2	None	None	G3T2	S2	1B.1
<b><i>Cladium californicum</i></b> California saw-grass	PMCYP04010	None	None	G4	S2	2B.2
<b><i>Coccyzus americanus occidentalis</i></b> western yellow-billed cuckoo	ABNRB02022	Threatened	Endangered	G5T2T3	S1	
<b><i>Corynorhinus townsendii</i></b> Townsend's big-eared bat	AMACC08010	None	None	G3G4	S2	SSC
<b><i>Cuscuta obtusiflora</i> var. <i>glandulosa</i></b> Peruvian dodder	PDCUS01111	None	None	G5T4T5	SH	2B.2
<b><i>Cypseloides niger</i></b> black swift	ABNUA01010	None	None	G4	S2	SSC
<b><i>Dodecahema leptoceras</i></b> slender-horned spineflower	PDPGN0V010	Endangered	Endangered	G1	S1	1B.1
<b><i>Dudleya cymosa</i> ssp. <i>crebrifolia</i></b> San Gabriel River dudleya	PDCRA040A8	None	None	G5T1	S1	1B.2
<b><i>Dudleya densiflora</i></b> San Gabriel Mountains dudleya	PDCRA040B0	None	None	G2	S2	1B.1
<b><i>Dudleya multicaulis</i></b> many-stemmed dudleya	PDCRA040H0	None	None	G2	S2	1B.2
<b><i>Empidonax traillii extimus</i></b> southwestern willow flycatcher	ABPAE33043	Endangered	Endangered	G5T2	S1	
<b><i>Emys marmorata</i></b> western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
<b><i>Eumops perotis californicus</i></b> western mastiff bat	AMACD02011	None	None	G5T4	S3S4	SSC



Selected Elements by Scientific Name  
California Department of Fish and Wildlife  
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<b><i>Falco peregrinus anatum</i></b> American peregrine falcon	ABNKD06071	Delisted	Delisted	G4T4	S3S4	FP
<b><i>Galium grande</i></b> San Gabriel bedstraw	PDRUB0N0V0	None	None	G1	S1	1B.2
<b><i>Gila orcuttii</i></b> arroyo chub	AFCJB13120	None	None	G2	S2	SSC
<b><i>Helianthus nuttallii ssp. parishii</i></b> Los Angeles sunflower	PDAST4N102	None	None	G5TH	SH	1A
<b><i>Horkelia cuneata var. puberula</i></b> mesa horkelia	PDROS0W045	None	None	G4T1	S1	1B.1
<b><i>Icteria virens</i></b> yellow-breasted chat	ABPBX24010	None	None	G5	S3	SSC
<b><i>Imperata brevifolia</i></b> California satintail	PMPOA3D020	None	None	G4	S3	2B.1
<b><i>Lasionycteris noctivagans</i></b> silver-haired bat	AMACC02010	None	None	G5	S3S4	
<b><i>Lasiurus blossevillei</i></b> western red bat	AMACC05060	None	None	G5	S3	SSC
<b><i>Lasiurus cinereus</i></b> hoary bat	AMACC05030	None	None	G5	S4	
<b><i>Lasiurus xanthinus</i></b> western yellow bat	AMACC05070	None	None	G5	S3	SSC
<b><i>Lasthenia glabrata ssp. coulteri</i></b> Coulter's goldfields	PDAST5L0A1	None	None	G4T2	S2	1B.1
<b><i>Lepidium virginicum var. robinsonii</i></b> Robinson's pepper-grass	PDBRA1M114	None	None	G5T3	S3	4.3
<b><i>Lepus californicus bennettii</i></b> San Diego black-tailed jackrabbit	AMAEB03051	None	None	G5T3T4	S3S4	SSC
<b><i>Linanthus concinnus</i></b> San Gabriel linanthus	PDPLM090D0	None	None	G2	S2	1B.2
<b><i>Muhlenbergia californica</i></b> California muhly	PMPOA480A0	None	None	G4	S4	4.3
<b><i>Navarretia prostrata</i></b> prostrate vernal pool navarretia	PDPLM0C0Q0	None	None	G2	S2	1B.1
<b><i>Nyctinomops femorosaccus</i></b> pocketed free-tailed bat	AMACD04010	None	None	G4	S3	SSC
<b><i>Nyctinomops macrotis</i></b> big free-tailed bat	AMACD04020	None	None	G5	S3	SSC
<b><i>Onychomys torridus ramona</i></b> southern grasshopper mouse	AMAFF06022	None	None	G5T3	S3	SSC
<b><i>Open Engelmann Oak Woodland</i></b> Open Engelmann Oak Woodland	CTT71181CA	None	None	G2	S2.2	



Selected Elements by Scientific Name  
California Department of Fish and Wildlife  
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<b><i>Orcuttia californica</i></b> California Orcutt grass	PMPOA4G010	Endangered	Endangered	G1	S1	1B.1
<b><i>Orobanche valida ssp. valida</i></b> Rock Creek broomrape	PDORO040G2	None	None	G4T2	S2	1B.2
<b><i>Ovis canadensis nelsoni</i></b> desert bighorn sheep	AMALE04013	None	None	G4T4	S3	FP
<b><i>Phacelia stellaris</i></b> Brand's star phacelia	PDHYD0C510	None	None	G1	S1	1B.1
<b><i>Phrynosoma blainvillii</i></b> coast horned lizard	ARACF12100	None	None	G3G4	S3S4	SSC
<b><i>Polioptila californica californica</i></b> coastal California gnatcatcher	ABPBJ08081	Threatened	None	G4G5T2Q	S2	SSC
<b><i>Pseudognaphalium leucocephalum</i></b> white rabbit-tobacco	PDAST440C0	None	None	G4	S2	2B.2
<b><i>Rana muscosa</i></b> southern mountain yellow-legged frog	AAABH01330	Endangered	Endangered	G1	S1	WL
<b><i>Rhinichthys osculus ssp. 3</i></b> Santa Ana speckled dace	AFCJB3705K	None	None	G5T1	S1	SSC
<b><i>Ribes divaricatum var. parishii</i></b> Parish's gooseberry	PDGRO020F3	None	None	G4TX	SX	1A
<b><i>Riparia riparia</i></b> bank swallow	ABPAU08010	None	Threatened	G5	S2	
<b><i>Riversidian Alluvial Fan Sage Scrub</i></b> Riversidian Alluvial Fan Sage Scrub	CTT32720CA	None	None	G1	S1.1	
<b><i>Scutellaria bolanderi ssp. austromontana</i></b> southern mountains skullcap	PDLAM1U0A1	None	None	G4T3	S3	1B.2
<b><i>Sidalcea neomexicana</i></b> Salt Spring checkerbloom	PDMAL110J0	None	None	G4	S2	2B.2
<b><i>Southern California Arroyo Chub/Santa Ana Sucker Stream</i></b> Southern California Arroyo Chub/Santa Ana Sucker Stream	CARE2330CA	None	None	GNR	SNR	
<b><i>Southern Coast Live Oak Riparian Forest</i></b> Southern Coast Live Oak Riparian Forest	CTT61310CA	None	None	G4	S4	
<b><i>Southern Sycamore Alder Riparian Woodland</i></b> Southern Sycamore Alder Riparian Woodland	CTT62400CA	None	None	G4	S4	
<b><i>Spea hammondi</i></b> western spadefoot	AAABF02020	None	None	G3	S3	SSC
<b><i>Symphotrichum defoliatum</i></b> San Bernardino aster	PDASTE80C0	None	None	G2	S2	1B.2
<b><i>Symphotrichum greatae</i></b> Greata's aster	PDASTE80U0	None	None	G2	S2	1B.3
<b><i>Taricha torosa</i></b> Coast Range newt	AAAAF02032	None	None	G4	S4	SSC



Selected Elements by Scientific Name  
California Department of Fish and Wildlife  
California Natural Diversity Database




Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<b><i>Taxidea taxus</i></b> American badger	AMAJF04010	None	None	G5	S3	SSC
<b><i>Thamnophis hammondi</i></b> two-striped gartersnake	ARADB36160	None	None	G4	S3S4	SSC
<b><i>Thelypteris puberula var. sonorensis</i></b> Sonoran maiden fern	PPTHE05192	None	None	G5T3	S2	2B.2
<b><i>Vireo bellii pusillus</i></b> least Bell's vireo	ABPBW01114	Endangered	Endangered	G5T2	S2	
<b>Walnut Forest</b> Walnut Forest	CTT81600CA	None	None	G1	S1.1	

Record Count: 87



# Map of Project Area

## California Natural Diversity Database (CNDDDB) Commercial [ds85]

-  Plant (80m)
-  Plant (specific)
-  Plant (non-specific)
-  Plant (circular)
-  Animal (80m)
-  Animal (specific)
-  Animal (non-specific)
-  Animal (circular)
-  Terrestrial Comm. (80m)
-  Terrestrial Comm. (specific)
-  Terrestrial Comm. (non-specific)
-  Terrestrial Comm. (circular)
-  Aquatic Comm. (80m)
-  Aquatic Comm. (specific)
-  Aquatic Comm. (non-specific)
-  Aquatic Comm. (circular)
-  Multiple (80m)
-  Multiple (specific)
-  Multiple (non-specific)
-  Multiple (circular)
-  Sensitive EO's (Commercial only)



Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

July 26, 2017

## Plant List

### Inventory of Rare and Endangered Plants

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

#### Search Criteria

Found in Quads 3411822, 3411821, 3411728, 3411812, 3411811, 3411718, 3311882 3311881 and 3311788;

[Modify Search Criteria](#)
[Export to Excel](#)
[Modify Columns](#)
[Modify Sort](#)
[Display Photos](#)

Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Rare Plant Rank	State Rank	Global Rank
<a href="#">Acanthoscyphus parishii var. parishii</a>	Parish's oxytheca	Polygonaceae	annual herb	Jun-Sep	4.2	S3S4	G4? T3T4
<a href="#">Arctostaphylos glandulosa ssp. gabrielensis</a>	San Gabriel manzanita	Ericaceae	perennial evergreen shrub	Mar	1B.2	S3	G5T3
<a href="#">Asplenium vespertinum</a>	western spleenwort	Aspleniaceae	perennial rhizomatous herb	Feb-Jun	4.2	S4	G4
<a href="#">Astragalus brauntonii</a>	Braunton's milk-vetch	Fabaceae	perennial herb	Jan-Aug	1B.1	S2	G2
<a href="#">Atriplex serenana var. davidsonii</a>	Davidson's saltscale	Chenopodiaceae	annual herb	Apr-Oct	1B.2	S1	G5T1
<a href="#">Berberis nevinii</a>	Nevin's barberry	Berberidaceae	perennial evergreen shrub	(Feb)Mar-Jun	1B.1	S1	G1
<a href="#">California macrophylla</a>	round-leaved filaree	Geraniaceae	annual herb	Mar-May	1B.2	S3?	G3?
<a href="#">Calochortus catalinae</a>	Catalina mariposa lily	Liliaceae	perennial bulbiferous herb	(Feb)Mar-Jun	4.2	S4	G4
<a href="#">Calochortus clavatus var. gracilis</a>	slender mariposa lily	Liliaceae	perennial bulbiferous herb	Mar-Jun(Nov)	1B.2	S2S3	G4T2T3
<a href="#">Calochortus plummerae</a>	Plummer's mariposa lily	Liliaceae	perennial bulbiferous herb	May-Jul	4.2	S4	G4
<a href="#">Calochortus weedii var. intermedius</a>	intermediate mariposa lily	Liliaceae	perennial bulbiferous herb	May-Jul	1B.2	S2	G3G4T2
<a href="#">Calystegia felix</a>	lucky morning-glory	Convolvulaceae	annual rhizomatous herb	Mar-Sep	3.1	SH	GHQ
<a href="#">Centromadia parryi ssp. australis</a>	southern tarplant	Asteraceae	annual herb	May-Nov	1B.1	S2	G3T2
<a href="#">Centromadia pungens ssp. laevis</a>	smooth tarplant	Asteraceae	annual herb	Apr-Sep	1B.1	S2	G3G4T2
<a href="#">Chorizanthe parryi var. fernandina</a>	San Fernando Valley spineflower	Polygonaceae	annual herb	Apr-Jul	1B.1	S1	G2T1
<a href="#">Chorizanthe parryi var. parryi</a>	Parry's spineflower	Polygonaceae	annual herb	Apr-Jun	1B.1	S2	G3T2
<a href="#">Cladium californicum</a>	California sawgrass	Cyperaceae	perennial rhizomatous herb	Jun-Sep	2B.2	S2	G4
<a href="#">Clinopodium mimuloides</a>	monkey-flower savory	Lamiaceae	perennial herb	Jun-Oct	4.2	S3	G3

<a href="#"><u>Convolvulus simulans</u></a>	small-flowered morning-glory	Convolvulaceae	annual herb	Mar-Jul	4.2	S4	G4
<a href="#"><u>Cuscuta obtusiflora var. glandulosa</u></a>	Peruvian dodder	Convolvulaceae	annual vine (parasitic)	Jul-Oct	2B.2	SH	G5T4T5
<a href="#"><u>Diplacus johnstonii</u></a>	Johnston's monkeyflower	Phrymaceae	annual herb	May-Aug	4.3	S4	G4
<a href="#"><u>Dodecahema leptoceras</u></a>	slender-horned spineflower	Polygonaceae	annual herb	Apr-Jun	1B.1	S1	G1
<a href="#"><u>Dudleya cymosa ssp. crebrifolia</u></a>	San Gabriel River dudleya	Crassulaceae	perennial herb	Apr-Jul	1B.2	S1	G5T1
<a href="#"><u>Dudleya densiflora</u></a>	San Gabriel Mountains dudleya	Crassulaceae	perennial herb	Mar-Jun	1B.1	S2	G2
<a href="#"><u>Dudleya multicaulis</u></a>	many-stemmed dudleya	Crassulaceae	perennial herb	Apr-Jul	1B.2	S2	G2
<a href="#"><u>Galium angustifolium ssp. gabrielense</u></a>	San Antonio Canyon bedstraw	Rubiaceae	perennial herb	Apr-Aug	4.3	S3	G5T3
<a href="#"><u>Galium grande</u></a>	San Gabriel bedstraw	Rubiaceae	perennial deciduous shrub	Jan-Jul	1B.2	S1	G1
<a href="#"><u>Galium johnstonii</u></a>	Johnston's bedstraw	Rubiaceae	perennial herb	Jun-Jul	4.3	S4	G4
<a href="#"><u>Helianthus nuttallii ssp. parishii</u></a>	Los Angeles sunflower	Asteraceae	perennial rhizomatous herb	Aug-Oct	1A	SH	G5TH
<a href="#"><u>Heuchera caespitosa</u></a>	urn-flowered alumroot	Saxifragaceae	perennial rhizomatous herb	May-Aug	4.3	S3	G3
<a href="#"><u>Hordeum intercedens</u></a>	vernal barley	Poaceae	annual herb	Mar-Jun	3.2	S3S4	G3G4
<a href="#"><u>Horkelia cuneata var. puberula</u></a>	mesa horkelia	Rosaceae	perennial herb	Feb-Jul(Sep)	1B.1	S1	G4T1
<a href="#"><u>Imperata brevifolia</u></a>	California satintail	Poaceae	perennial rhizomatous herb	Sep-May	2B.1	S3	G4
<a href="#"><u>Juglans californica</u></a>	Southern California black walnut	Juglandaceae	perennial deciduous tree	Mar-Aug	4.2	S3	G3
<a href="#"><u>Lasthenia glabrata ssp. coulteri</u></a>	Coulter's goldfields	Asteraceae	annual herb	Feb-Jun	1B.1	S2	G4T2
<a href="#"><u>Lepechinia fragrans</u></a>	fragrant pitcher sage	Lamiaceae	perennial shrub	Mar-Oct	4.2	S3	G3
<a href="#"><u>Lepidium virginicum var. robinsonii</u></a>	Robinson's pepper-grass	Brassicaceae	annual herb	Jan-Jul	4.3	S3	G5T3
<a href="#"><u>Lilium humboldtii ssp. ocellatum</u></a>	ocellated Humboldt lily	Liliaceae	perennial bulbiferous herb	Mar-Jul(Aug)	4.2	S3	G4T3
<a href="#"><u>Linanthus concinnus</u></a>	San Gabriel linanthus	Polemoniaceae	annual herb	Apr-Jul	1B.2	S2	G2
<a href="#"><u>Linanthus orcuttii</u></a>	Orcutt's linanthus	Polemoniaceae	annual herb	May-Jun	1B.3	S2	G3
<a href="#"><u>Muhlenbergia californica</u></a>	California muhly	Poaceae	perennial rhizomatous herb	Jun-Sep	4.3	S4	G4
<a href="#"><u>Navarretia prostrata</u></a>	prostrate vernal pool navarretia	Polemoniaceae	annual herb	Apr-Jul	1B.1	S2	G2
<a href="#"><u>Orcuttia californica</u></a>	California Orcutt grass	Poaceae	annual herb	Apr-Aug	1B.1	S1	G1
<a href="#"><u>Orobanche valida ssp. valida</u></a>	Rock Creek broomrape	Orobanchaceae	perennial herb (parasitic)	May-Sep	1B.2	S2	G4T2



<a href="#">Phacelia hubbyi</a>	Hubby's phacelia	Hydrophyllaceae	annual herb	Apr-Jul	4.2	S4	G4
<a href="#">Phacelia ramosissima var. austrolitoralis</a>	south coast branching phacelia	Hydrophyllaceae	perennial herb	Mar-Aug	3.2	S3	G5?T3
<a href="#">Phacelia stellaris</a>	Brand's star phacelia	Hydrophyllaceae	annual herb	Mar-Jun	1B.1	S1	G1
<a href="#">Pseudognaphalium leucocephalum</a>	white rabbit-tobacco	Asteraceae	perennial herb	(Jul)Aug-Nov(Dec)	2B.2	S2	G4
<a href="#">Quercus durata var. gabrielensis</a>	San Gabriel oak	Fagaceae	perennial evergreen shrub	Apr-May	4.2	S3	G4T3
<a href="#">Quercus engelmannii</a>	Engelmann oak	Fagaceae	perennial deciduous tree	Mar-Jun	4.2	S3	G3
<a href="#">Ribes divaricatum var. parishii</a>	Parish's gooseberry	Grossulariaceae	perennial deciduous shrub	Feb-Apr	1A	SX	G4TX
<a href="#">Romneya coulteri</a>	Coulter's matilija poppy	Papaveraceae	perennial rhizomatous herb	Mar-Jul	4.2	S4	G4
<a href="#">Rupertia rigida</a>	Parish's rupertia	Fabaceae	perennial herb	Jun-Aug	4.3	S4	G4
<a href="#">Scutellaria bolanderi ssp. austromontana</a>	southern mountains skullcap	Lamiaceae	perennial rhizomatous herb	Jun-Aug	1B.2	S3	G4T3
<a href="#">Senecio astephanus</a>	San Gabriel ragwort	Asteraceae	perennial herb	May-Jul	4.3	S3	G3
<a href="#">Sidalcea neomexicana</a>	salt spring checkerbloom	Malvaceae	perennial herb	Mar-Jun	2B.2	S2	G4
<a href="#">Symphyotrichum defoliatum</a>	San Bernardino aster	Asteraceae	perennial rhizomatous herb	Jul-Nov	1B.2	S2	G2
<a href="#">Symphyotrichum greatae</a>	Greata's aster	Asteraceae	perennial rhizomatous herb	Jun-Oct	1B.3	S2	G2
<a href="#">Thelypteris puberula var. sonorensis</a>	Sonoran maiden fern	Thelypteridaceae	perennial rhizomatous herb	Jan-Sep	2B.2	S2	G5T3

### Suggested Citation

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July 27, 2017

**Wetlands**

- |   |                                |   |                                   |   |          |
|---|--------------------------------|---|-----------------------------------|---|----------|
|  | Estuarine and Marine Deepwater |  | Freshwater Emergent Wetland       |  | Lake     |
|  | Estuarine and Marine Wetland   |  | Freshwater Forested/Shrub Wetland |  | Other    |
|  | Freshwater Pond                |  | Freshwater Pond                   |  | Riverine |

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

**Phase I  
Cultural Resource  
Assessment**

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**APPENDIX C**





December 20, 2018

Bayer Management, Inc.  
4804 Laurel Canyon Blvd., Suite 742  
Valley Village, CA 91607

Attn: Mr. Daniel Bayer:

Subj: **Live Oak Arcadia Townhomes MND, Phase I Cultural Resources Assessment, Arcadia, California (Envicom Project #17-739-101)**

Dear Mr. Bayer:

On December 20, 2018, Envicom Corporation (Envicom) completed a Phase I cultural resource assessment of the property at 4371 East Live Oak Avenue, in unincorporated Los Angeles County, California. The Project is fully contained on the El Monte USGS quad (**Figure 1**). The general location is as follows:

**4371 E. Live Oak Ave.**  
**APN: 8511-018-015**  
**Latitude: 34° 6'39.97"N**  
**Longitude: 118° 0'26.46"W**  
**Township: T1S**  
**Range: R11W**  
**Quad: El Monte, CA**

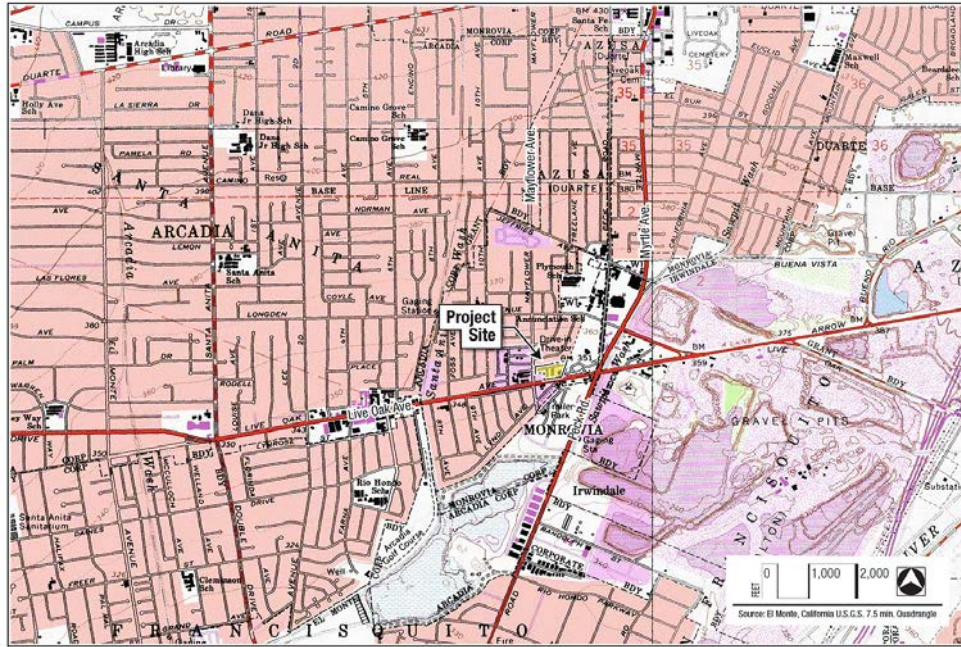
A Phase I cultural resource study includes a cultural resource record search conducted by the South Central Coast Information Center (SCCIC), and a Native American cultural resource record search conducted by the Native American Heritage Commission (NAHC). The purpose of the record searches are to identify any previous cultural resources that have been recorded within the proposed project area, to provide cultural resource context for the project, and to assess the overall cultural resource sensitivity of the project region. A cultural resource is often defined as any building, structure, object, or archaeological site that is older than 50-years in age, and can include historic or prehistoric locations of human habitation.

A Phase I cultural resource survey also often includes a physical inspection of the project area to determine if previously unrecorded cultural resources can be identified from surface observation of the project area of direct impacts (ADI). Pedestrian field surveys are also conducted to locate and assess any previously-identified cultural resources identified by the SCCIC in their database as being within the subject property.

The subject property consists of a paved and developed mobile home park and a fenced vacant lot (**Figure 2**). The commercial area in the lower left of Figure 2 is not part of the project. The part of the project property that is completely paved (the mobile home park) did not require a pedestrian survey due to complete urban development of the landscape. A pedestrian survey of the vacant lot (**Figure 3**) was conducted to evaluate whether cultural resources were present on the landscape surface. The developed portion of the project property contains numerous mobile homes (**Figure**



4); however, such structures are considered moveable and are not considered potential built environment resources. Therefore, an assessment of the built environment for historic resources was not warranted for this project.



*Figure 1: Project Property Location in Unincorporated Los Angeles County, California*





*Figure 2: Project property, consisting of a vacant parcel (seen in the lower right) and a mobile home park (the commercial area shown in the lower left is not part of the project).*



*Figure 3: Project property, vacant portion, showing flat, graded landscape.*



*Figure 4: Project property, paved and developed portion, showing mobile homes.*

## RECORD SEARCH RESULTS

On May 11, 2017, Envicom contacted the SCCIC with a request to search their database for cultural resources within the project site, and in the surrounding area for regional context (see Figure 1). The record search included a request for all complete site records for cultural resources within the project area, as well as copies of any cultural resource technical reports that intersect with the location of the proposed project. The NAHC was also contacted on May 11, 2017, with a similar record search request. The lead agency also conducted a separate NAHC record search in December of 2018. All correspondence with the SCCIC and NAHC are provided in **Appendix A** of this report.

The original SCCIC record search had a 0.33-mile study area around the project site, which was examined for cultural resource context for the project. At the request of the lead agency, this study area was expanded to 0.5-miles, with a revised record search being requested by Envicom on December 11, 2018. The findings from this second record search were received on December 19, 2018 and have been integrated into this report.

The record search results provided a map of all known cultural resources that are located within the project site and within a 0.5-mile radius of the project site. The SCCIC report determined that no previously identified cultural resources were located within the proposed project property. The SCCIC also determined that no past cultural resource report dealt with the project property.

The SCCIC did identify three historic buildings (P-19-190065, P-19-190350, and P-19-192202) within the study area. P-19-190065 is the Church of the Annunciation Catholic Church, P-19-190350 is a residence on East Longden Avenue, and P-19-192202 is a residence on South 8<sup>th</sup> Street. None of these historic built environment resources are near the subject property. A fourth structure, the Village Presbyterian Church of Arcadia, is designated as a local historic resource. This additional built environment resource will also not be impacted by the project.

The SCCIC also indicated that seven cultural resource reports (LA-06859, LA-08211, LA-09238, LA-10583, LA-11108, LA-11936, and LA-12497) had taken place within the 0.5-mile study area. These reports were, however, also remote from the project property and are, therefore, also not

relevant for this project. The 2017 SCCIC record search also identified that six cultural resource reports (LA-03511, LA-03583, LA-04323, LA-11484, LA-11747, and LA-11748) provided broad discussions of the project area. Such “overview” documents often contain general historic or prehistoric information, but do not include detailed discussions of cultural resources, and are therefore not relevant for this cultural resource assessment. Details on all of these cultural resources, cultural resource reports, and the rest of the SCCIC non-confidential report material are provided in **Appendix B** of this report.

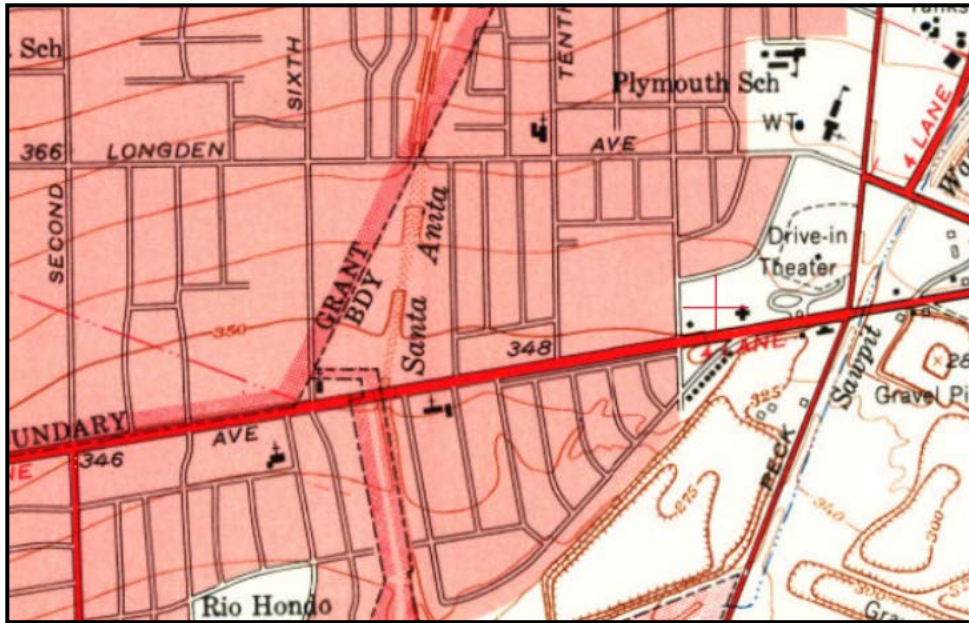
Examination of several 20<sup>th</sup> Century historical local maps and twenty-one USGS historic maps of the area also showed no historical resources within the project property. USGS maps dated back to 1894, but did not show much local development until the mid-1920s, when the mostly empty landscape began filling in with homesteads (**Figure 5**).



*Figure 5: 1928 USGS map, showing first development of the project region (project property at red X)*

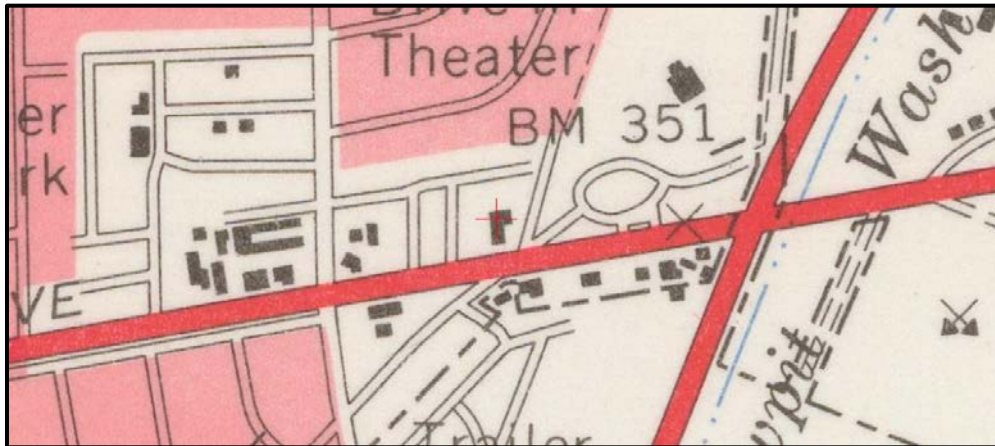
Urban development accelerated after World War II, and mostly filled in the landscape by the 1950s, as shown on the 1953 USGS historic map (**Figure 6**). The 1953 map also shows a cross-shaped structure located within the currently vacant part of the property. As this structure was not present on the 1941 USGS map, the construction date of this historic building was between 1941 and 1953.





**Figure 6: 1953 USGS map, showing filling in of the local landscape with urban development and the cross-shaped structure located within the project site (near red X).**

The 1966 USGS map shows that the cross-shaped structure on the southeast portion of the site has been replaced or remodeled into an L-shaped building (Figure 7). This L-shaped building is still present on the historic USGS map in 1994, but does not appear on the most recent USGS maps (Figure 8). Finally, review of historic satellite images through Google Earth showed no project area changes back to 1994, indicating that the building was removed sometime in or immediately before 1994 by historic map comparative analysis.



**Figure 7: 1966 USGS map, showing a new L-shaped building on the project property (at red X)**



*Figure 8: 2017 USGS map, showing project property area (vacant portion is at red X).*

To conclude, two previous structures have been located on the project property, both within the current vacant area. The first was a cross-shaped structure, which existed from the 1940s through the 1960s. The second was an L-shaped structure from the 1960s through 1994. The land use history of the area, therefore, indicates that historic material related to either of these structures will likely be present on the property, however, the repeated process of construction, demolition, and final grading of the vacant portion of the property makes the presence of intact significant historic-era cultural resources a low probability.

**IN SUMMARY:**

**Previously Identified Cultural Resources Located within the Project Property:**

None.

**Past Cultural Resource Technical Reports Located within the Project Property:**

None.

**Previously Identified SCCIC Cultural Resources Located within the Project Study Area:**

Three: P-19-190065, P-19-190350, and P-19-192202 (all are built environment resources).

**Previously Identified City of Arcadia Cultural Resources Located within the Project Study Area:**

One: The Village Presbyterian Church of Arcadia (also a built environment resource).

**Past Cultural Resource Technical Reports Located within the Project Study Area:**

Seven: LA-06859, LA-08211, LA-09238, LA-10583, LA-11108, LA-11936, and LA-12497.



**General Overview Cultural Resource Reports that include the Project Area:**

Six: LA-03511, LA-03583, LA-04323, LA-11484, LA-11747, and LA-11748.

The results from the 2017 NAHC record search were received on May 15, 2017, with negative findings. Envicom did not contact Native American groups on the NAHC list as communications with Tribal Group representative under Assembly Bill-52 is the responsibility of the permitting agency if required as part of this project. The results of the 2018 NAHC record search provided to Envicom from the lead agency were received on December 5, 2018, and were positive for Native American cultural resources. Such resources will be addressed during Native American consultation with the lead agency, and will not be discussed in this report.

**PEDESTRIAN SURVEY RESULTS**

Mr. Bill Bartram of Envicom surveyed the entire project property on July 6th, 2017. Most of the property is a paved mobile home park (see Figure 4). The portion of the property that is currently vacant had clear signs of past grading to make the landscape flat (see Figure 3). Ground visibility was good (roughly 30 to 90%), with large areas of patchy grass and weeds covering the lot landscape (**Figure 9**).



*Figure 9: The vacant section of the project property, showing ground visibility.*

Little historical material was observed on the surface, with only small amounts of modern discarded material being observed. Observed material did not indicate that an older cultural resource was present, nor were any historic features noted. Since historic document analysis has shown that at least two large commercial buildings had once occupied this location, the absence of historic material or features on the surface was a good indicator that the area has been heavily graded or that clean fill was brought in to cover at least part of the surface.

Overall, the information observed during the pedestrian survey matched up well with the findings from the SCCIC, and from the inspection of historic local USGS maps and historic aerial images. The soils should not be considered sensitive for prehistoric cultural resources as the property is not near a dependable local water source, nor does it contain areas above such resources where prehistoric sites are often found, and most of the original topsoil has been removed or relocated over the last hundred years. The area does not appear to be sensitive for historic resources either, due to the extensive urbanization of the property and past construction, demolition, and grading episodes, all of which have probably left the original native soils extensively impacted, churned, or removed. Dr. Bischoff, therefore, concluded that no cultural resources were present within the subject property.

## **RECOMMENDATIONS**

The results of the SCCIC was negative for cultural resources or built environment resources within or adjacent to the project property. The NAHC results were positive for Native American cultural resources, which will be dealt with during AB-52 consultation between any interested Native American tribal groups and the lead agency.

Review of local historic maps and the historic USGS map database indicated that two historic structures were once located within the current vacant portion of the property, however, these structures were sequentially removed since the 1950s. The pedestrian survey was also negative for observable cultural resources within the vacant portion of the project, and did not find evidence of sensitive cultural soils. The pedestrian survey concluded that no features or artifacts associated with the past two structures, or any other prehistoric or historic resource, was observed on the surface.

The prehistoric cultural resource context of the area was determined to not be significant due to extensive urbanization, with no prehistoric resources being identified by the SCCIC within the project study area. The historic context was also not determined to be significant due to the lack of important built environment resources within the project study area, and the clear past demolition of the two structures that once were located on vacant portion of the property, followed by extensive grading of the lot. The project location is, therefore, not recommended as being directly within a local sensitive area for prehistoric or historic resources.

The findings from the Phase I survey of the proposed project and the project property are, therefore, negative for cultural resources, with no further cultural resource tasks being recommended.

Envicom does, however, recommend the following project compliance measures:

**Archaeological Discovery Compliance Measure:**

If buried materials of potentially-archaeological significance are accidentally discovered during any earth-moving operation associated with the proposed Project, then all work in that area shall be halted or diverted away from the discovery until a qualified archaeologist can evaluate the nature and/or significance of the find(s). The Lead/Permitting Agency will be immediately notified of the discovery.

In the event that the unanticipated discovery proves to be a significant cultural resource, then work will be halted within 100 feet of the discovery, until consultation between the Lead/Permitting Agency and all parties as to response to the discovery can occur. If a significant cultural resource is discovered during earth-moving, complete avoidance of the find is preferred, however, removal or data recovery of the significant resource may be required by the Lead Agency if the resource cannot be avoided.

The Lead/Permitting Agency and the qualified archaeologist shall also establish additional appropriate mitigation measures for further site development, which may include archaeological and Native American (if the discovery is prehistoric) monitoring or subsurface testing. All responses to the discovery of a significant cultural resource will be outlined in a Cultural Resource Data Recovery and/or Management Plan submitted to the Lead Agency. Any required monitoring will be outlined in a Cultural Resource Monitoring Plan, which will also be submitted to the Lead Agency prior to the recommencement of ground-disturbance activities.

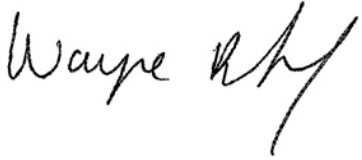
**Inadvertent Discovery of Human Remains Compliance Measure:**

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

If the human remains are determined to be prehistoric, the Coroner will notify the NAHC, which will determine and notify a Most Likely Descendant (MLD). The MLD shall complete the inspection of the site within 48 hours of notification and may recommend scientific removal and nondestructive analysis of human remains and items associated with Native American burials and an appropriate re-internment site. The Lead/Permitting Agency and a qualified archaeologist shall also establish additional appropriate mitigation measures for further site development, which may include archaeological and Native American monitoring or subsurface testing. All responses to the discovery of human remains will be outlined in a Recovery and/or Management Plan submitted to the Lead Agency. Any required monitoring will be outlined in a Cultural Resource Monitoring

Plan, which will also be submitted to the Lead Agency prior to the recommencement of ground-disturbance activities.

Sincerely,

A handwritten signature in black ink, appearing to read "Wayne Bischoff". The signature is written in a cursive style with a long, sweeping tail on the final letter.

Dr. Wayne Bischoff  
Director of Cultural Resources

**Attachments:**

Appendix A, SCCIC and NAHC Correspondence  
Appendix B, SCCIC Report Material

**Appendix A**  
**SCCIC and NAHC Correspondence**

May 11, 2017

Native American Heritage Commission  
1550 Harbor Boulevard, Room 100  
West Sacramento, CA 95691

**Subj: Live Oak Arcadia Townhomes MND, Phase I Cultural Resources Assessment,  
Arcadia, California (Envicom Project #17-739-101)**

Greetings,

Envicom is requesting a record review of your records for cultural resources for the Project area, plus a **0.33-mile buffer**. We also request a list of Tribal Group representatives for the area in case we need to contact their offices.

**The Project is located at:**

**Latitude: 34° 6'39.97"N**  
**Longitude: 118° 0'26.46"W**  
**Township: T1S**  
**Range: R11W**  
**Quad: El Monte, CA**

Envicom appreciates the NAHC's help with this request. For correspondence or questions regarding this Project, please contact Wayne Bischoff at 818-879-4700 ([wbischoff@envicomcorporation.com](mailto:wbischoff@envicomcorporation.com)).

Sincerely,

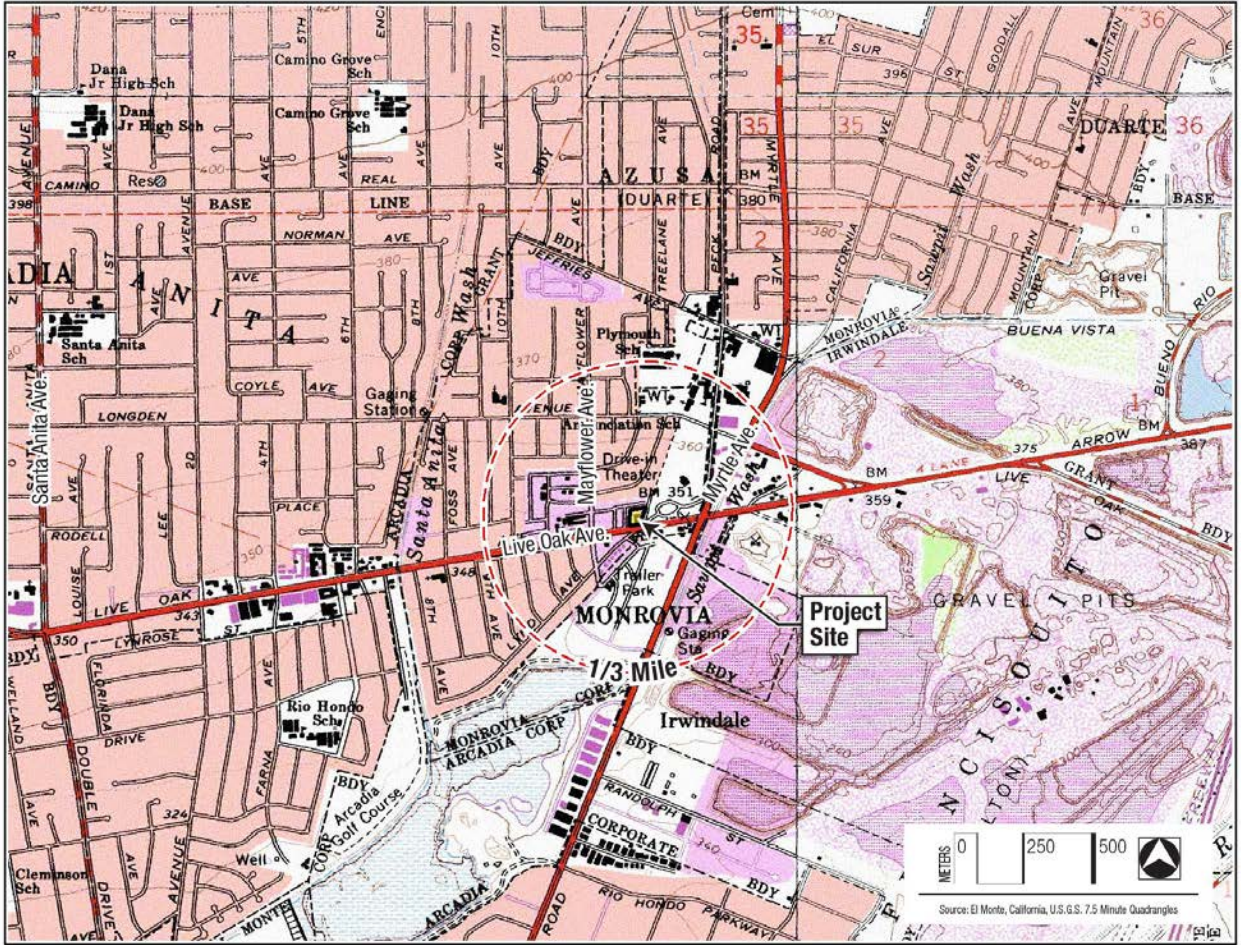
A handwritten signature in black ink that reads "Wayne Bischoff". The signature is written in a cursive, flowing style.

Dr. Wayne Bischoff  
Director of Cultural Resources

**Attachment:**

Project vicinity map on 1:24,000 topographic map





**NATIVE AMERICAN HERITAGE COMMISSION**

Environmental and Cultural Department  
1550 Harbor Blvd., Suite 100  
West Sacramento, CA 95691  
(916) 373-3710



May 15, 2017

Dr. Wayne Bischoff  
Envicom Corporation

Sent by E-mail: [wbischoff@envicomcorporation.com](mailto:wbischoff@envicomcorporation.com)  
Cc: [waynebischoff@gmail.com](mailto:waynebischoff@gmail.com)

RE: Proposed Live Oak Arcadia Townhomes Project Phase I Cultural Resources Assessment (Envicom Project #17-739-101), Community of Arcadia; El Monte USGS Quadrangle, Los Angeles County, California

Dear Dr. Bischoff:

A record search of the Native American Heritage Commission (NAHC) *Sacred Lands File* was completed for the area of potential project effect (APE) referenced above with negative results. Please note that the absence of specific site information in the *Sacred Lands File* does not indicate the absence of Native American cultural resources in any APE.

Attached is a list of tribes culturally affiliated to the project area. I suggest you contact all of the listed Tribes. If they cannot supply information, they might recommend others with specific knowledge. The list should provide a starting place to locate areas of potential adverse impact within the APE. By contacting all those on the list, your organization will be better able to respond to claims of failure to consult. If a response has not been received within two weeks of notification, the NAHC requests that you follow-up with a telephone call to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from any of these individuals or groups, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact via email: [gayle.totton@nahc.ca.gov](mailto:gayle.totton@nahc.ca.gov).

Sincerely,

A handwritten signature in blue ink that reads "Gayle Totton".

Gayle Totton, M.A., PhD.  
Associate Governmental Program Analyst

**Native American Heritage Commission  
Native American Contact List  
Los Angeles County  
5/15/2017**

**Fernandeno Tataviam Band of Mission Indians**

Alan Salazar, Chairman Elders Council  
229 Ute Lane  
Ventura, CA, 93001  
Phone: (805) 423 - 0091  
Tataviam

**Gabrielino /Tongva Nation**

Sandonne Goad, Chairperson  
106 1/2 Judge John Also St., #231  
Los Angeles, CA, 90012  
Phone: (951)807-0479  
sgoad@gabrielino-tongva.com  
Gabrielino

**Fernandeno Tataviam Band of Mission Indians**

Kimia Fatehi, Tribal Historic and Cultural Preservation Officer  
1019 Second Street, Suite 1  
San Fernando, CA, 91340  
Phone: (818) 837 - 0794  
Fax: (818) 837-0796  
kfatehi@tataviam-nsn.us  
Tataviam

**Gabrielino Tongva Indians of California Tribal Council**

Robert Dorame, Chairperson  
P.O. Box 490  
Bellflower, CA, 90707  
Phone: (562) 761 - 6417  
Fax: (562) 761-6417  
gtongva@gmail.com  
Gabrielino

**Fernandeno Tataviam Band of Mission Indians**

Beverly Folkes, Elders Council  
1019 Second St. Suite 1  
San Fernando, CA, 91340  
Tataviam

**Gabrielino-Tongva Tribe**

Linda Candelaria, Co-Chairperson  
23453 Vanowen Street  
West Hills, CA, 91307  
Phone: (626) 676 - 1184  
palm springs9@yahoo.com  
Gabrielino

**Fernandeno Tataviam Band of Mission Indians**

Beverly Salazar, Councilmember  
1931 Shady Brooks Drive  
Thousand Oaks, CA, 91362  
Phone: (805) 558 - 1154  
Tataviam

**San Fernando Band of Mission Indians**

John Valenzuela, Chairperson  
P.O. Box 221838  
Newhall, CA, 91322  
Phone: (760) 885 - 0955  
tsen2u@hotmail.com  
Kitanemuk  
Serrano  
Tataviam

**Gabrieleno Band of Mission Indians - Kizh Nation**

Andrew Salas, Chairperson  
P.O. Box 393  
Covina, CA, 91723  
Phone: (626) 926 - 4131  
gabrielenoindians@yahoo.com  
Gabrieleno

**Gabrieleno/Tongva San Gabriel Band of Mission Indians**

Anthony Morales, Chairperson  
P.O. Box 693  
San Gabriel, CA, 91778  
Phone: (626) 483 - 3564  
Fax: (626)286-1262  
GTTribalcouncil@aol.com  
Gabrieleno

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Live Oak Arcadia Townhomes Project, Los Angeles County.



NATIVE AMERICAN HERITAGE COMMISSION  
Cultural and Environmental Department  
1550 Harbor Blvd., Suite 100 West Sacramento, CA 95691 Phone: (916) 373-3710  
Email: [nahc@nahc.ca.gov](mailto:nahc@nahc.ca.gov)  
Website: <http://www.nahc.ca.gov>  
Twitter: @CA\_NAHC



December 5, 20128

Marie Pavlovic  
Los Angeles County

VIA Email to: [mpavlovic@planning.lacounty.gov](mailto:mpavlovic@planning.lacounty.gov)

RE: TR80294, Los Angeles County.

Dear Ms. Pavlovic:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were positive. Please contact the Gabrielino Band of Mission Indians-Kizh Nation and the Gabrieleno/Tongva San Gabriel Band of Mission Indians on the attached list for more information. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact me at my email address: [katy.sanchez@nahc.ca.gov](mailto:katy.sanchez@nahc.ca.gov).

Sincerely,

A handwritten signature in blue ink that reads "Katy Sanchez".

KATY SANCHEZ  
Associate Environmental Planner

Attachment

**Native American Heritage Commission  
Native American Contacts List  
12/5//2018**

Gabrieleno Band of Mission Indians - Kizh Nation Andrew Salas, Chairperson P.O. Box 393 Covina ,CA 91723 admin@gabrielenoindians.org (626) 926-4131	Gabrielino	Gabrielino-Tongva Tribe Charles Alvarez, Councilmember 23454 Vanowen St. West Hills ,CA 91307 roadkingcharles@aol.com (310) 403-6048	Gabrielino
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Gabrieleno/Tongva San Gabriel Band of Mission Indians Anthony Morales, Chairperson P.O. Box 693 San Gabriel ,CA 91778 GTTribalcouncil@aol.com (626) 483-3564 Cell (626) 286-1262 Fax	Gabrielino Tongva
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Gabrielino /Tongva Nation Sandonne Goad, Chairperson 106 1/2 Judge John Aiso St., #231 Los Angeles ,CA 90012 sgoad@gabrielino-tongva.com (951) 807-0479	Gabrielino Tongva
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Gabrielino Tongva Indians of California Tribal Council Robert F. Dorame, Chairman P.O. Box 490 Bellflower ,CA 90707 gtongva@gmail.com (562) 761-6417 Voice/Fax	Gabrielino Tongva
---	-------------------

Gabrielino-Tongva Tribe Linda Candelaria, Chairperson 80839 Camino Santa Juliana Indio ,CA 92203 lcandelaria1@gabrielinotribe.org	Gabrielino
---	------------

**This list is current as of the date of this document and is based on the information available to the Commission on the date it was produced.**

**Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code, or Section 5097.98 of the Public Resources Code.**

**This list is only applicable for contacting local Native American Tribes for the proposed: TR80294 Project, Los Angeles County.**

December 11, 2018

Stacy St. James, Coordinator  
South Central Coastal Information Center  
C.S.U.F, Dept. of Anthropology, MH 426  
800 N. State College Blvd.  
Fullerton, CA 92834-6846

Attn: Ms. St. James

Subj: **Live Oak Arcadia Townhomes MND, Phase I Cultural Resources Assessment, Arcadia, California  
(Envicom Project #17-739-101)**

Dear Ms. St. James:

Envicom is requesting an **EXPEDITED** record search of the SCCIC database for cultural resources within the attached Project area, plus a **0.5-mile study area**.

You completed this record search at a smaller radius last year, however, the Lead Agency has requested a larger study area for this project. Can you please expedite this project ASAP, as the request was unexpected in our entitlement process.

The project is located at: **Quad: El Monte, CA  
Latitude: 34° 6'39.97"N, Longitude: 118° 0'26.46"W, Township: T1S, Range: R11W**

We are requesting to receive the following: Resource Database Printout (list), Resource Database Printout (details), Resource Digital Database (spreadsheet), Report Database Printout (list), Report Database Printout (details), Report Digital Database (spreadsheet), Resource Record Copies (within project area only, not the study area), Report Copies (within project area only, not the study area), OHP Historic Properties Directory, Archaeological Determinations of Eligibility, Los Angeles Cultural Monuments, , and Historic Maps.

**We are requesting the reports and/or site records for any cultural resources found within the project area only, not the 0.5 mile study area.**

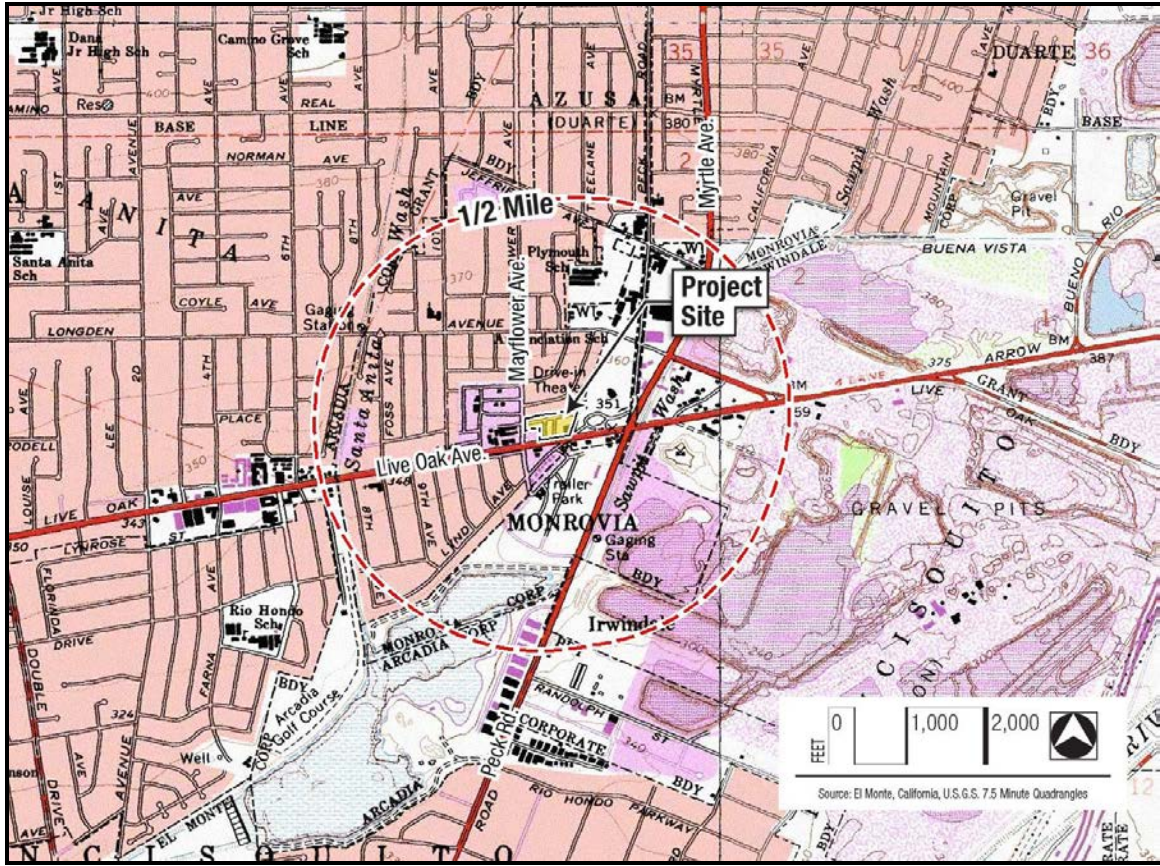
Envicom appreciates the SCCIC's help with this request. For correspondence or questions regarding this Project, please contact Wayne Bischoff at 818-879-4700 ([wbischoff@envicomcorporation.com](mailto:wbischoff@envicomcorporation.com)).

Sincerely,



Dr. Wayne Bischoff  
Director of Cultural Resources

**Attachment:** Project vicinity map on 1:24,000 topographic map



**Appendix B**  
**SCCIC Report Material**



**South Central Coastal Information Center**

California State University, Fullerton  
Department of Anthropology MH-426  
800 North State College Boulevard  
Fullerton, CA 92834-6846  
657.278.5395 / FAX 657.278.5542  
[sccic@fullerton.edu](mailto:sccic@fullerton.edu)

*California Historical Resources Information System*  
Orange, Los Angeles, and Ventura Counties

12/13/2018

Records Search File No.: 19735.5690

Wayne Bischoff  
Envicom Corporation  
4165 E. Thousand Oaks Blvd, Suite 290  
Westlake Village, CA 91362

Re: Record Search Results for Live Oak Arcadia Townhomes MND, Phase I Cultural Resources Assessment, Arcadia, California (Envicom Project #17-739-101)

The South Central Coastal Information Center received your records search request for the project area referenced above, located on the El Monte and Baldwin Park, CA USGS 7.5' quadrangles. The following reflects the results of the records search for the project area and a ½-mile radius:

As indicated on the data request form, the locations of resources and reports are provided in the following format:  custom GIS maps  shape files  hand-drawn maps

Resources within project area: 0	None
Resources within ½-mile radius: 3	SEE ATTACHED MAP or LIST
Resources listed in the OHP Historic Properties Directory within project area: 0	None
Resources listed in the OHP Historic Properties Directory within ½-mile radius: 1	SEE ATTACHED LIST FOR INDIVIDUAL PROPERTY STATUS CODES – resource locations from the OHP HPD may or may not be plotted on the custom GIS map or provided as a shape file
Reports within project area: 0	Provide numbers SEE ATTACHED MAP or LIST
Reports within ½-mile radius: 13	SEE ATTACHED MAP or LIST. 6 are overview reports.

- Resource Database Printout (list):**  enclosed  not requested  nothing listed
- Resource Database Printout (details):**  enclosed  not requested  nothing listed
- Resource Digital Database (spreadsheet):**  enclosed  not requested  nothing listed
- Report Database Printout (list):**  enclosed  not requested  nothing listed
- Report Database Printout (details):**  enclosed  not requested  nothing listed
- Report Digital Database (spreadsheet):**  enclosed  not requested  nothing listed
- Resource Record Copies:**  enclosed  not requested  nothing listed
- Report Copies:**  enclosed  not requested  nothing listed

**OHP Historic Properties Directory:**  enclosed  not requested  nothing listed  
**Archaeological Determinations of Eligibility:**  enclosed  not requested  nothing listed  
**Los Angeles Historic-Cultural Monuments**  enclosed  not requested  nothing listed  
**Historical Maps:**  enclosed  not requested  nothing listed  
**Ethnographic Information:**  not available at SCCIC  
**Historical Literature:**  not available at SCCIC  
**GLO and/or Rancho Plat Maps:**  not available at SCCIC  
**Caltrans Bridge Survey:**  not available at SCCIC; please go to  
<http://www.dot.ca.gov/hq/structur/strmaint/historic.htm>  
**Shipwreck Inventory:**  not available at SCCIC; please go to  
[http://shipwrecks.slc.ca.gov/ShipwrecksDatabase/Shipwrecks\\_Database.asp](http://shipwrecks.slc.ca.gov/ShipwrecksDatabase/Shipwrecks_Database.asp)  
**Soil Survey Maps: (see below)**  not available at SCCIC; please go to  
<http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>

Please forward a copy of any resulting reports from this project to the office as soon as possible. Due to the sensitive nature of archaeological site location data, we ask that you do not include resource location maps and resource location descriptions in your report if the report is for public distribution. If you have any questions regarding the results presented herein, please contact the office at the phone number listed above.

The provision of CHRIS Data via this records search response does not in any way constitute public disclosure of records otherwise exempt from disclosure under the California Public Records Act or any other law, including, but not limited to, records related to archeological site information maintained by or on behalf of, or in the possession of, the State of California, Department of Parks and Recreation, State Historic Preservation Officer, Office of Historic Preservation, or the State Historical Resources Commission.

Due to processing delays and other factors, not all of the historical resource reports and resource records that have been submitted to the Office of Historic Preservation are available via this records search. Additional information may be available through the federal, state, and local agencies that produced or paid for historical resource management work in the search area. Additionally, Native American tribes have historical resource information not in the CHRIS Inventory, and you should contact the California Native American Heritage Commission for information on local/regional tribal contacts.

Should you require any additional information for the above referenced project, reference the record search number listed above when making inquiries. Requests made after initial invoicing will result in the preparation of a separate invoice.

Thank you for using the [California Historical Resources Information System](#),

Isabela Kott  
 GIS Technician/Staff Researcher

Enclosures:

- (X) Custom Maps – 1 page
- (X) Resource Database Printout (list) – 1 page
- (X) Resource Database Printout (details) – 3 pages
- (X) Resource Digital Database (spreadsheet) – 1 line
- (X) Report Database Printout (list) – 5 pages
- (X) Report Database Printout (details) – 19 pages
- (X) Report Digital Database (spreadsheet) – 13 lines
- (X) OHP Historic Properties Directory – 1 page
- (X) National Register Status Codes – 1 page
- (X) Historical Maps – 8 pages

# Resource List

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-19-190065		Resource Name - Church of the Annunciation; Other - T-Mobile West LLC IE04587A/Longden Church	Building	Historic	HP16 (Religious building)	2012 (K.A. Crawford, Crawford Historic Services)	LA-11936
P-19-190350		Resource Name - 628 E Longden Ave	Building	Historic	HP02 (Single family property)	2011 (Jennifer Thornton, Casey Tibbet, LSA Associates)	
P-19-192202		Resource Name - 2415 S 8th Ave	Building	Historic	HP02 (Single family property)	2013 (Casey Tibbet, LSA)	

## Resource Detail: P-19-190065

---

### Identifying information

*Primary No.:* P-19-190065

*Trinomial:*

*Name:* Church of the Annunciation

<i>Other IDs:</i>	<i>Type</i>	<i>Name</i>
Resource Name		Church of the Annunciation
Other		T-Mobile West LLC IE04587A/Longden Church

*Cross-refs:*

### Attributes

*Resource type:* Building

*Age:* Historic

*Information base:* Survey

*Attribute codes:* HP16 (Religious building)

*Disclosure:* Unrestricted

*Collections:* No

*Accession no(s):*

*Facility:*

### General notes

### Recording events

<i>Date</i>	<i>Recorder(s)</i>	<i>Affiliation</i>	<i>Notes</i>
8/20/2012	K.A. Crawford	Crawford Historic Services	

### Associated reports

<i>Report No.</i>	<i>Year</i>	<i>Title</i>	<i>Affiliation</i>
LA-11936	2012	Cuultural Resources Records Search and Site Visit Results for T-Mobile West, LLc Candidate IE04587A (LA587 Longden Church), 1307 Longden Avenue, Arcadia, California	MBA

### Location information

*County:* Los Angeles

*USGS quad(s):* EL MONTE

<i>Address:</i>	<i>Address</i>	<i>City</i>	<i>Assessor's parcel no.</i>	<i>Zip code</i>
	1307 East Longden Ave	Arcadia	8511-015-016	

*PLSS:*

*UTMs:*

### Management status

### Database record metadata

<i>Date</i>	<i>User</i>
-------------	-------------

*Entered:* 12/13/201 mgalaz

*Last modified:* 12/13/201 mgalaz

*IC actions:*

*Record status:*

# Resource Detail: P-19-190350

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## Identifying information

Primary No.: P-19-190350

Trinomial:

Name: 628 E Longden Ave

Other IDs:	Type	Name
	Resource Name	628 E Longden Ave

Cross-refs:

## Attributes

Resource type: Building

Age: Historic

Information base: Survey

Attribute codes: HP02 (Single family property)

Disclosure: Unrestricted

Collections: No

Accession no(s):

Facility:

## General notes

## Recording events

Date	Recorder(s)	Affiliation	Notes
9/1/2011	Jennifer Thornton, Casey Tibbet	LSA Associates	

## Associated reports

## Location information

County: Los Angeles

USGS quad(s): EL MONTE

Address:	Address	City	Assessor's parcel no.	Zip code
	628 E Longden Ave	Arcadia	5791-021-014	

PLSS:

UTMs:

## Management status

## Database record metadata

Date	User
------	------

Entered: 5/30/2013 mgalaz

Last modified: 6/3/2013 mgalaz

IC actions:

Record status:

# Resource Detail: P-19-192202

---

## Identifying information

Primary No.: P-19-192202

Trinomial:

Name: 2415 S 8th Ave

Other IDs:	Type	Name
	Resource Name	2415 S 8th Ave

Cross-refs:

## Attributes

Resource type: Building

Age: Historic

Information base: Survey

Attribute codes: HP02 (Single family property)

Disclosure: Unrestricted

Collections: No

Accession no(s):

Facility:

## General notes

## Recording events

Date	Recorder(s)	Affiliation	Notes
9/1/2013	Casey Tibbet	LSA	

## Associated reports

## Location information

County: Los Angeles

USGS quad(s): EL MONTE

Address: Address	City	Assessor's parcel no.	Zip code
2415 S 8th Ave	Arcadia	5791-023-038	91006
2415 S Eighth Ave			

PLSS:

UTMs:

## Management status

## Database record metadata

Date	User
------	------

Entered: 12/21/2011 mgalaz

Last modified: 12/21/2011 mgalaz

IC actions:

Record status:

InventoryID	InventoryID	ResourceName	Material	Inventory	OtherID	Arch	RelType	Age	Inventory	Altitude	ResourceReference	ResourceCollection	Accession	CollectionFacility	ResourceName	RecordingDate	Report	County	State	Address	FLS	OTW
P19-19001		Church of the Annunciation	No	No	Resource Name: Church of the Annunciation Other: 1834th Ave LLC 000000/Church Church		Building	Historic	Survey		HP14 (Polynesian Building)	Unrecorded	No			2012 (K.A. Crawford, Crawford Historic Services)	LA-11000	Los Angeles	IL, MEXICO	1834th Langston Ave Los Angeles (949) 511-0111-0111		
P19-19002		628 E Langston Ave	No	No	Resource Name: 628 E Langston Ave		Building	Historic	Survey		HP22 (Single Family property)	Unrecorded	No			2011 (Jennifer Thomson, Casey Thibault, USA Associates)		Los Angeles	IL, MEXICO	628 E Langston Ave Los Angeles (949) 511-0111-0111		
P19-19003		2415 S 8th Ave	No	No	Resource Name: 2415 S 8th Ave		Building	Historic	Survey		HP22 (Single Family property)	Unrecorded	No			2013 (Crawley Thibault, LSA)		Los Angeles	IL, MEXICO	2415 S 8th Ave Los Angeles (949) 511-0111-0111		



## Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
LA-03511		1977	Romani, John F.	Assessment of the Archaeological Impact by the Development of the Waste Water Facilities Plan W.o. 31389	Northridge Archaeological Research Center, CSUN	19-000009, 19-000043, 19-000053, 19-000055, 19-000056, 19-000057, 19-000058, 19-000061, 19-000062, 19-000064, 19-000065, 19-000068, 19-000203, 19-000204, 19-000206, 19-000211, 19-000212, 19-000343

## Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
LA-03583		1974	Bucknam, Bonnie M.	The Los Angeles Basin and Vicinity: a Gazetteer and Compilation of Archaeological Site Information	Archaeological Research, Inc.	19-000001, 19-000002, 19-000003, 19-000004, 19-000005, 19-000007, 19-000009, 19-000010, 19-000011, 19-000012, 19-000013, 19-000015, 19-000016, 19-000017, 19-000018, 19-000019, 19-000023, 19-000024, 19-000027, 19-000028, 19-000029, 19-000030, 19-000031, 19-000033, 19-000037, 19-000038, 19-000039, 19-000040, 19-000044, 19-000045, 19-000046, 19-000047, 19-000048, 19-000049, 19-000050, 19-000051, 19-000052, 19-000053, 19-000054, 19-000055, 19-000056, 19-000057, 19-000058, 19-000059, 19-000060, 19-000061, 19-000062, 19-000063, 19-000064, 19-000065, 19-000066, 19-000067, 19-000068, 19-000069, 19-000070, 19-000071, 19-000072, 19-000073, 19-000074, 19-000078, 19-000080, 19-000088, 19-000090, 19-000091, 19-000092, 19-000094, 19-000096, 19-000097, 19-000098, 19-000099, 19-000100, 19-000101, 19-000102, 19-000103, 19-000104, 19-000105, 19-000106, 19-000107, 19-000108, 19-000109, 19-000110, 19-000112, 19-000113, 19-000114, 19-000115, 19-000116, 19-000117, 19-000118, 19-000119, 19-000120, 19-000121, 19-000122, 19-000123, 19-000124, 19-000125, 19-000126, 19-000127, 19-000131, 19-000133, 19-000134, 19-000135, 19-000136, 19-000137, 19-000138, 19-000139, 19-000140, 19-000141, 19-000142, 19-000143, 19-000144, 19-000145, 19-000146, 19-000147, 19-000148, 19-000149, 19-000150, 19-000151, 19-000152, 19-000153, 19-000154, 19-000155, 19-000156, 19-000159, 19-000161, 19-000162, 19-000170, 19-000171, 19-000172, 19-000174, 19-000175, 19-000178, 19-000179, 19-000180, 19-000181, 19-000182, 19-000183, 19-000184, 19-000185,

## Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
						19-000187, 19-000189, 19-000190, 19-000191, 19-000193, 19-000194, 19-000195, 19-000196, 19-000197, 19-000198, 19-000199, 19-000200, 19-000201, 19-000202, 19-000203, 19-000204, 19-000205, 19-000206, 19-000207, 19-000210, 19-000211, 19-000212, 19-000213, 19-000214, 19-000215, 19-000216, 19-000217, 19-000219, 19-000220, 19-000222, 19-000224, 19-000225, 19-000226, 19-000227, 19-000229, 19-000231, 19-000232, 19-000233, 19-000234, 19-000235, 19-000236, 19-000245, 19-000255, 19-000263, 19-000264, 19-000265, 19-000266, 19-000267, 19-000268, 19-000269, 19-000270, 19-000271, 19-000272, 19-000273, 19-000274, 19-000275, 19-000276, 19-000277, 19-000278, 19-000279, 19-000280, 19-000281, 19-000282, 19-000283, 19-000284, 19-000285, 19-000286, 19-000287, 19-000288, 19-000289, 19-000291, 19-000292, 19-000303, 19-000306, 19-000307, 19-000308, 19-000309, 19-000310, 19-000311, 19-000316, 19-000317, 19-000319, 19-000322, 19-000330, 19-000331, 19-000332, 19-000333, 19-000335, 19-000340, 19-000341, 19-000344, 19-000350, 19-000352, 19-000353, 19-000354, 19-000356, 19-000382, 19-000383, 19-000385, 19-000386, 19-000387, 19-000388, 19-000389, 19-000390, 19-000398, 19-000400, 19-000401, 19-000403, 19-000404, 19-000406, 19-000415, 19-000423, 19-000424, 19-000425, 19-000448, 19-000454, 19-000468, 19-000469, 19-000470, 19-000472, 19-000478, 19-000483, 19-000484, 19-000494, 19-000495, 19-000496, 19-000497, 19-000499, 19-000500, 19-000501, 19-000505, 19-000506, 19-000512, 19-000513, 19-000514, 19-000515, 19-000516, 19-000517,

## Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
						19-000519, 19-000520, 19-000523, 19-000525, 19-000526, 19-000527, 19-000528, 19-167019, 19-179270
LA-04323		1985	Hill, James N.	Cultural Evolution in the Archaic/mesolithic: a Research Design for the Los Angeles Basin	Archaeological Resource Management Corp.	
LA-06859		1996	Unknown	Arcadia General Plan	LSA Associates, Inc.	19-001868
LA-08211		2005	Bonner, Wayne H.	Cultural Resource Records Search Results and Site Visit for Cingular Telecommunications Facility Candidate EI-0150-01 (village Presbyterian Church), 2733 South 10th Avenue, Arcadia, Los Angeles County, California	Michael Brandman Associates	
LA-09238		2007	Bonner, Wayne H.	Cultural Resources Records Search and Site Visit Results for Royal Street Communications, LLC Candidate LA0103B (Longden Church), 1307 East Longden Avenue, Arcadia, Los Angeles County, California	Michael Brandman Associates	
LA-10583		2010	Billat, Lorna	New Tower Submission Packet - Village Presbyterian Church, LA0103C	EarthTouch, Inc	
LA-11108		2010	Sims, Douglas	CA-LOS4051a, 4064 East Live Oak, Arcadia, CA 91006	Sims & Associates	
LA-11484			Walker, E.F. and Robinson, Eugene	Partial List of Indian Village Sites in Lost [sic] Angeles County, with a few in Orange County. (Information from Eugene Robinson, Handwritten, in "Reconnaissance Sites 15F" looseleaf notbook of Mr. E.F. Walker, Southwest Museum, Los Angeles, California	Southwest Museum	
LA-11747		2006	Sakai, Rodney	Programmatic Agreement Compliance Report, twenty-first Reporting Period, July 1, 2005-- March 31, 2006	Historic Resources Group	
LA-11748		2003	Sakai, Rodney	Programmatic Agreement Compliance Report Fifteenth Reporting Period July 1-- December 31, 2002	SHPO & Advisory Council on Historic Preservation	
LA-11936		2012	Bonner, Wayne	Cuultural Resources Records Search and Site Visit Results for T-Mobile West, LLC Candidate IE04587A (LA587 Longden Church), 1307 Longden Avenue, Arcadia, California	MBA	19-190065

# Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
LA-12497		2010	Maxon, Pat	Draft Program Environmental Impact Report, City of Arcadia, 2010 General Plan Update	BonTerra Consulting	19-001868, 19-179332, 19-179333, 19-179334, 19-179335, 19-179336, 19-179337, 19-186674, 19-187703, 19-187944, 19-188266

PROPERTY-NUMBER	PRIMARY-#	STREET-ADDRESS.....	NAMES.....	CITY-NAME.....	OWN	YR-C	OHP-PROG..	PRG-REFERENCE-NUMBER	STAT-DAT	NRS	CRIT
158394	2733	S 10TH AVE	VILLAGE PRESBYTERIAN CHURCH OF ARC	ARCADIA	P	1954	PROJ. REVW.	FCC060106B	01/17/06	6Y	
153715		1409 S 10TH ST		ARCADIA		1947	PROJ. REVW.	HUD040329B	04/21/04	6U	
066520		21 S 1ST AVE		ARCADIA	U		PROJ. REVW.	HUD880309G	04/05/88	6Y	
125521		1521 S 4TH AVE		ARCADIA	U	1926	HIST. RES.	DOE-19-97-0241-0000	10/06/97	6Y	
							PROJ. REVW.	HUD971006G	10/06/97	6Y	
153938		1525 S 6TH AVE		ARCADIA		1947	PROJ. REVW.	HUD031101B	12/01/03	6U	
125752		2400 S 6TH AVE		ARCADIA	U	1926	HIST. RES.	DOE-19-99-0393-0000	06/14/99	6Y	
							PROJ. REVW.	HUD990614F	06/14/99	6Y	
125741		2330 S BALDWIN AVE		ARCADIA	U	1932	HIST. RES.	DOE-19-99-0383-0000	06/14/99	6Y	
							PROJ. REVW.	HUD990614F	06/14/99	6Y	
083135		1106 S MAYFLOWER AVE		ARCADIA	P	1941	PROJ. REVW.	HUD930106E	07/29/93	6Y	
097870		405 S SANTA ANITA AVE	ARCADIA COUNTY PARK-BATHHOUSE	ARCADIA	M		HIST. RES.	DOE-19-94-0288-0000	08/12/94	6Y	
							PROJ. REVW.	HRG940202Z	08/12/94	6Y	
134432		1412 S SANTA ANITA AVE		ARCADIA		1938	HIST. RES.	DOE-19-02-1022-0000	10/09/02	6U	
							PROJ. REVW.	HUD021009N	10/09/02	6U	
125526		2320 S SANTA ANITA AVE		ARCADIA	U	1942	HIST. RES.	DOE-19-97-0246-0000	10/06/97	6Y	
							PROJ. REVW.	HUD971006G	10/06/97	6Y	
125522		918 TINDALO RD		ARCADIA	U	1942	HIST. RES.	DOE-19-97-0242-0000	10/06/97	6Y	
							PROJ. REVW.	HUD971006G	10/06/97	6Y	
125744		1213 VALENCIA WY		ARCADIA	U	1947	HIST. RES.	DOE-19-99-0385-0000	06/14/99	6Y	
							PROJ. REVW.	HUD990614F	06/14/99	6Y	
153842		129 W CAMINO REAL AVE		ARCADIA		1930	PROJ. REVW.	HUD040329B	04/21/04	6U	
152525		650 W DUARTE RD		ARCADIA	P	1957	HIST. RES.	DOE-19-04-0423-0000	08/17/04	6Y	
							PROJ. REVW.	FCC040712J	08/17/04	6Y	
030021	19-179332	701 W FOOTHILL BLVD	ANOAKIA	ARCADIA	P	1912	HIST. SURV.	1006-0001-0000		3S	
182128		240 W HUNTINGTON DR	ARCADIA CITY HALL	ARCADIA	M	1948	PROJ. REVW.	DOE110207A	03/30/11	6Y	
091575		285 W HUNTINGTON DR	SANTA ANITA PARK / ASSEMBLY CENTER	ARCADIA	U	1942	HIST. RES.	NPS-06000672-9999	08/03/06	2S	A
							NAT. REG.	19-0486	05/05/06	2S	A
							HIST. RES.	SHL-0934-0008	05/13/80	1CL	
083924		60 W LAS FLORES AVE		ARCADIA	U	1927	PROJ. REVW.	HUD920211B	08/30/93	6Y	
083304		52 W LONGDEN AVE		ARCADIA	U	1937	PROJ. REVW.	HUD891231X	08/05/93	6Y	
125746		225 W LONGDEN AVE		ARCADIA	U	1946	HIST. RES.	DOE-19-99-0387-0000	06/14/99	6Y	
							PROJ. REVW.	HUD990614F	06/14/99	6Y	
153713		618 W LONGDEN AVE		ARCADIA		1927	PROJ. REVW.	HUD040329B	04/21/04	6U	
125738		107 W NAOMI AVE		ARCADIA	U	1941	HIST. RES.	DOE-19-99-0380-0000	06/14/99	6Y	
							PROJ. REVW.	HUD990614F	06/14/99	6Y	
154756		24 W NORMAN AVE		ARCADIA		1925	PROJ. REVW.	HUD050627E	07/15/05	6U	
085015		239 W NORMAN AVE		ARCADIA	P	1938	PROJ. REVW.	HUD931105G	12/15/93	6Y	
153931		100 W PAMELA RD		ARCADIA		1950	PROJ. REVW.	HUD031101B	12/01/03	6U	
125740		68 W WOODRUFF AVE		ARCADIA	U	1947	HIST. RES.	DOE-19-99-0382-0000	06/14/99	6Y	
							PROJ. REVW.	HUD990614F	06/14/99	6Y	
077894		452 W WOODRUFF AVE		ARCADIA	U	1941	PROJ. REVW.	HUD920923M	10/28/92	6Y	
084011		452 W WOODRUFF AVE		ARCADIA	U	1941	PROJ. REVW.	HUD920928M	08/31/93	6Y	
153841		617 W WOODRUFF AVE		ARCADIA		1946	PROJ. REVW.	HUD040329B	04/21/04	6U	
173860			SANTA ANITA DAM PAINT AND EXPLOSIV	(VIC) ARCADIA	C	1936	PROJ. REVW.	COE080804A	09/15/08	6Y	
173862			SANTA ANITA DAM SHELTER HOUSE	(VIC) ARCADIA	C	1946	PROJ. REVW.	COE080804A	09/15/08	6Y	
173861			SANTA ANITA DAM SLUICE GATE CONTRO	(VIC) ARCADIA	C	1936	PROJ. REVW.	COE080804A	09/15/08	6Y	
173859			SANTA ANITA DAM DAM KEEPER'S HOUSE	(VIC) ARCADIA	C	1937	PROJ. REVW.	COE080804A	09/15/08	6Y	
173858			SANTA ANITA DAM	(VIC) ARCADIA	C	1927	PROJ. REVW.	COE080804A	09/15/08	6Y	
152618		10273 BARTEE AVE		ARLETA		1952	HIST. RES.	DOE-19-03-0466-0000	07/31/03	6Y	
							PROJ. REVW.	HUD030801A	07/31/03	6Y	
184460		13272 BRACKEN ST		ARLETA	P	1954	PROJ. REVW.	HUD101220C	12/27/10	6Y	
180348		13634 BRACKEN ST		ARLETA	P	1950	PROJ. REVW.	HUD101018D	11/16/10	6Y	

# Report Detail: LA-03511

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## Identifiers

Report No.: LA-03511

Other IDs:

Cross-refs:

## Citation information

Author(s): Romani, John F.

Year: 1977

Title: Assessment of the Archaeological Impact by the Development of the Waste Water Facilities Plan W.o. 31389

Affiliation: Northridge Archaeological Research Center, CSUN

No. pages: 18

No. maps:

Attributes: Archaeological, Field study, Literature search

Inventory size: Unknown

Disclosure: Not for publication

Collections: No

## General notes

Mapped to entire LA County in Other Reports layer, GIS

## Associated resources

Primary No.	Trinomial	Name
P-19-000009	CA-LAN-000009	Topanga #9; LA-41
P-19-000043	CA-LAN-000043	
P-19-000053	CA-LAN-000053	Farragut Drive School Site
P-19-000055	CA-LAN-000055	Shulene #1
P-19-000056	CA-LAN-000056	Rozaire #1
P-19-000057	CA-LAN-000057	Lindberg Park Site
P-19-000058	CA-LAN-000058	Machado Site
P-19-000061	CA-LAN-000061	Malcolm Farmer's Playa del Rey
P-19-000062	CA-LAN-000062	Malcolm Farmer's Playa del Rey
P-19-000064	CA-LAN-000064	Malcolm Farmer's Playa del Rey
P-19-000065	CA-LAN-000065	Malcolm Farmer's Playa del Rey
P-19-000068	CA-LAN-000068	Malcolm Farmer's Baldwin Hills
P-19-000203	CA-LAN-000203	Metates
P-19-000204	CA-LAN-000204	
P-19-000206	CA-LAN-000206	William Deane's site #6
P-19-000211	CA-LAN-000211	William Deane's Site #1
P-19-000212	CA-LAN-000212	
P-19-000343	CA-LAN-000343/H	Los Encinos State Historical Mo

No. resources: 18

Has informals:

## Location information

County(ies): Los Angeles

USGS quad(s): ACTON, ADOBE MTN, AGUA DULCE, ALPINE BUTTE, AZUSA, BALDWIN PARK, BEVERLY HILLS, BLACK MTN, BURBANK, BURNT PEAK, CALABASAS, CANOGA PARK, CHILAO FLAT, COBBLESTONE MTN, CONDOR PEAK, CRYSTAL LAKE, DEL SUR, EL MIRAGE, EL MONTE, FAIRMONT BUTTE, FRAZIER MOUNTAIN, GLENDORA, GREEN VALLEY, HI VISTA, HOLLYWOOD, INGLEWOOD, JACKRABBIT HILL, JUNIPER HILLS, LA HABRA, LA LIEBRE RANCH, LAKE HUGHES, LANCASTER EAST, LANCASTER WEST, LEBEC, LIEBRE MTN, LITTLE BUTTES, LITTLEROCK, LONG BEACH, LOS ALAMITOS, LOS ANGELES, LOVEJOY BUTTES, MALIBU BEACH, MESCAL CREEK, MINT CANYON, MOUNT SAN ANTONIO, MT BALDY, MT WILSON, NEENACH SCHOOL, NEWHALL, OAT MOUNTAIN, ONTARIO, PACIFICO MOUNTAIN, PALMDALE, PASADENA, POINT DUME, REDMAN, REDONDO BEACH, RITTER RIDGE, ROGERS LAKE SOUTH, ROSAMOND, ROSAMOND LAKE, SAN DIMAS, SAN FERNANDO, SAN PEDRO, SANTA SUSANA, SEAL BEACH, SLEEPY VALLEY, SOUTH GATE, SUNLAND, THOUSAND OAKS, TOPANGA, TORRANCE, TRIUNFO PASS, VAL VERDE, VALYERMO, VAN NUYS, VENICE, WARM SPRINGS MOUNTAIN, WATERMAN MTN, WHITAKER PEAK, WHITTIER, YORBA LINDA

Address:

PLSS:

## Report Detail: LA-03511

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### Database record metadata

<i>Date</i>	<i>User</i>	
<i>Entered:</i> 5/5/2008	jay	
<i>Last modified:</i> 9/16/2014	agarcia	
<i>IC actions:</i>	<i>Date</i>	<i>User</i>
	5/6/2008	jay
	1/18/2012	agarcia
	1/7/2013	agarcia
		<i>Action taken</i>
		Appended records from old Surveys database.
		Merged with LA-03770, duplicates.
		Mapped to LA County as Other Report

*Record status:*



# Report Detail: LA-03583

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## Identifiers

Report No.: LA-03583

Other IDs:

Cross-refs:

## Citation information

Author(s): Bucknam, Bonnie M.

Year: 1974

Title: The Los Angeles Basin and Vicinity: a Gazetteer and Compilation of Archaeological Site Information

Affiliation: Archaeological Research, Inc.

No. pages: 289

No. maps:

Attributes: Other research

Inventory size: QC

Disclosure: Not for publication

Collections: Yes

## General notes

Also OR-4034 and VN-2983 - Mapped as Other Report to quads listed.

## Associated resources

<i>Primary No.</i>	<i>Trinomial</i>	<i>Name</i>
P-19-000001	CA-LAN-000001	Tank Site; LA-36
P-19-000002	CA-LAN-000002	Lower Tank Site, Treganza's Ta
P-19-000003	CA-LAN-000003	Tank Site 3
P-19-000004	CA-LAN-000004	Tank Site 4
P-19-000005	CA-LAN-000005	Tank Site 5
P-19-000007	CA-LAN-000007/H	UNION STATION; LA CHINATO
P-19-000009	CA-LAN-000009	Topanga #9; LA-41
P-19-000010	CA-LAN-000010	Topanga #10; LA-42
P-19-000011	CA-LAN-000011	Topanga #11; LA-43
P-19-000012	CA-LAN-000012	Topanga #12; LA-44
P-19-000013	CA-LAN-000013	Topanga #13; LA-45
P-19-000015	CA-LAN-000015	LA-184; LAN-51
P-19-000016	CA-LAN-000016	LA-47
P-19-000017	CA-LAN-000017	LA-48; TOPANGA #17
P-19-000018	CA-LAN-000018	LA-115
P-19-000019	CA-LAN-000019	Croasdale's Metate Site; LA-108
P-19-000023	CA-LAN-000023	UPPER CAVE SITE; LA-51; Top
P-19-000024	CA-LAN-000024	LA-52; Topanga #24
P-19-000027	CA-LAN-000027	Topanga #27
P-19-000028	CA-LAN-000028	Lachuza
P-19-000029	CA-LAN-000029	Shell Midden Settlement
P-19-000030	CA-LAN-000030	Winding Way West; Ramirez Sit
P-19-000031	CA-LAN-000031	
P-19-000033	CA-LAN-000033	
P-19-000037	CA-LAN-000037	Iny 111; LA-25 (Triunfo Canyon)
P-19-000038	CA-LAN-000038	Crest Site; LA-126
P-19-000039	CA-LAN-000039	Crags Site; LA-124
P-19-000040	CA-LAN-000040	Zuma Creek "C"; LA-15; Dume
P-19-000044	CA-LAN-000044/H	
P-19-000045	CA-LAN-000045	
P-19-000046	CA-LAN-000046	
P-19-000047	CA-LAN-000047	Sa' anga
P-19-000048	CA-LAN-000048	Salisbury #1
P-19-000049	CA-LAN-000049	Salisbury #2
P-19-000050	CA-LAN-000050	Smith's 162Pc
P-19-000051	CA-LAN-000051	

## Report Detail: LA-03583

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P-19-000052	CA-LAN-000052	Arroyo Sequit, Village of Lisiqshi
P-19-000053	CA-LAN-000053	Farragut Drive School Site
P-19-000054	CA-LAN-000054/H	Deane's Broken Mortar Site
P-19-000055	CA-LAN-000055	Shulene #1
P-19-000056	CA-LAN-000056	Rozaire #1
P-19-000057	CA-LAN-000057	Lindberg Park Site
P-19-000058	CA-LAN-000058	Machado Site
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-19-000061	CA-LAN-000061	Malcolm Farmer's Playa del Rey
P-19-000062	CA-LAN-000062	Malcolm Farmer's Playa del Rey
P-19-000063	CA-LAN-000063	Malcolm Farmer's Playa del Rey
P-19-000064	CA-LAN-000064	Malcolm Farmer's Playa del Rey
P-19-000065	CA-LAN-000065	Malcolm Farmer's Playa del Rey
P-19-000066	CA-LAN-000066	Malcolm Farmer's Playa del Rey
P-19-000067	CA-LAN-000067	Malcolm Farmer's Baldwin Hills
P-19-000068	CA-LAN-000068	Malcolm Farmer's Baldwin Hills
P-19-000069	CA-LAN-000069	Malcolm Farmer's Baldwin Hills
P-19-000070	CA-LAN-000070	Malcolm Farmer's Baldwin Hills
P-19-000071	CA-LAN-000071	Malcolm Farmer's Baldwin Hills
P-19-000072	CA-LAN-000072	Malcolm Farmer's Baldwin Hills
P-19-000073	CA-LAN-000073	Malcolm Farmer's Baldwin Hills
P-19-000074	CA-LAN-000074	Malcolm Farmer's Baldwin Hills
P-19-000078	CA-LAN-000078	
P-19-000080	CA-LAN-000080	
P-19-000088	CA-LAN-000088	Racer's Misc Sites #1 and Racer
P-19-000090	CA-LAN-000090	
P-19-000091	CA-LAN-000091	RACER'S SITE #3
P-19-000092	CA-LAN-000092	
P-19-000094	CA-LAN-000094	RACER'S SITE #6A (2 SITES M
P-19-000096	CA-LAN-000096	RACER'S SITE #7
P-19-000097	CA-LAN-000097	RACER'S SITE #8
P-19-000098	CA-LAN-000098	RACER'S SITE #10, Suangna In
P-19-000099	CA-LAN-000099	RACER'S SITE #11
P-19-000100	CA-LAN-000100	RACER'S SITE #12
P-19-000101	CA-LAN-000101	RACER'S SITE #13
P-19-000102	CA-LAN-000102	
P-19-000103	CA-LAN-000103	RACER'S SITE #17
P-19-000104	CA-LAN-000104	RACER'S SITE #18; 18A, 18B (
P-19-000105	CA-LAN-000105	RACER'S SITE #19
P-19-000106	CA-LAN-000106	Racer's Site #21
P-19-000107	CA-LAN-000107	RACER'S SITE #20
P-19-000108	CA-LAN-000108/H	Indian Hill
P-19-000109	CA-LAN-000109	Eberhart #14
P-19-000110	CA-LAN-000110	Eberhart #13
P-19-000112	CA-LAN-000112	
P-19-000113	CA-LAN-000113	Eberhart #10
P-19-000114	CA-LAN-000114	Cottontail Lane Site; Broad Beac
P-19-000115	CA-LAN-000115	Eberhart #8
P-19-000116	CA-LAN-000116	Eberhart #7
P-19-000117	CA-LAN-000117	Eberhart #6
P-19-000118	CA-LAN-000118	Eberhart #5
P-19-000119	CA-LAN-000119	Eberhart #4
P-19-000120	CA-LAN-000120	Eberhart #3
P-19-000121	CA-LAN-000121	Eberhart #2
P-19-000122	CA-LAN-000122	Eberhart #1
P-19-000123	CA-LAN-000123	Anaheim Street Site #1
P-19-000124	CA-LAN-000124	
P-19-000125	CA-LAN-000125	

## Report Detail: LA-03583

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P-19-000126	CA-LAN-000126	
P-19-000127	CA-LAN-000127	Palmer-Redondo
P-19-000131	CA-LAN-000131	
P-19-000133	CA-LAN-000133	SBMNH-127; Topanga Canyon s
P-19-000134	CA-LAN-000134	Nelson #2
P-19-000135	CA-LAN-000135	Nelson's #3
P-19-000136	CA-LAN-000136	
P-19-000137	CA-LAN-000137	Nelson #5 Refuse Heap
P-19-000138	CA-LAN-000138	MALAGA COVE
P-19-000139	CA-LAN-000139	Nelson #7
P-19-000140	CA-LAN-000140	Nelson #8 Camp Site
P-19-000141	CA-LAN-000141	Nelson #9 Refuse Heap
P-19-000142	CA-LAN-000142	Nelson #10 Refuse Heaps
P-19-000143	CA-LAN-000143/H	Nelson's #11 Camp Site
P-19-000144	CA-LAN-000144/H	Nelson's #12 Camp Site
P-19-000145	CA-LAN-000145/H	Nelson #13 Traces of Camp Site
P-19-000146	CA-LAN-000146	Nelson's #14 Refuse Heap
P-19-000147	CA-LAN-000147	Nelson #15 Refuse Heap
P-19-000148	CA-LAN-000148	Nelson #16 Refuse Heap
P-19-000149	CA-LAN-000149	Nelson #17 Refuse Heap
P-19-000150	CA-LAN-000150	Nelson #18 Refuse Heap
P-19-000151	CA-LAN-000151	Nelson #19 Traces of Camp Site
P-19-000152	CA-LAN-000152/H	Nelson #10 Refuse Heaps
P-19-000153	CA-LAN-000153	
P-19-000154	CA-LAN-000154	
P-19-000155	CA-LAN-000155/H	Stunt Ranch
P-19-000156	CA-LAN-000156	Stunt [5
P-19-000159	CA-LAN-000159/H	La Brea Tar Pits
P-19-000161	CA-LAN-000161	
P-19-000162	CA-LAN-000162	Biencourt
P-19-000170	CA-LAN-000170	
P-19-000171	CA-LAN-000171	Angeles Mesa Find
P-19-000172	CA-LAN-000172	LOS ANGELES MAN
P-19-000174	CA-LAN-000174	Zuma Creek "A"
P-19-000175	CA-LAN-000175	Voided
P-19-000178	CA-LAN-000178	
P-19-000179	CA-LAN-000179	
P-19-000180	CA-LAN-000180	
P-19-000181	CA-LAN-000181	Campsite
P-19-000182	CA-LAN-000182	Village of Sejat
P-19-000183	CA-LAN-000183	El Nido Site
P-19-000184	CA-LAN-000184H	San Gabriel Mission Archaeologi
P-19-000185	CA-LAN-000185H	VOIDED
P-19-000187	CA-LAN-000187	Small Gathering Camp
P-19-000189	CA-LAN-000189	Escondido Canyon; Perro Feroz
P-19-000190	CA-LAN-000190	
P-19-000191	CA-LAN-000191/H	Cypress Street Water Reservoir,
P-19-000193	CA-LAN-000193/H	Nelson #4 Refuse Heap
P-19-000194	CA-LAN-000194	Hammack St Site
P-19-000195	CA-LAN-000195	Burial; Calavera Site
P-19-000196	CA-LAN-000196	Zuma Creek "B"
P-19-000197	CA-LAN-000197	Trancas Cemetery; Trancas Can
P-19-000198	CA-LAN-000198	Zuma Creek "D"
P-19-000199	CA-LAN-000199	Zuma Creek "E"
P-19-000200	CA-LAN-000200	Zuma Creek "F"
P-19-000201	CA-LAN-000201	Zuma Creek Site "G"
P-19-000202	CA-LAN-000202	
P-19-000203	CA-LAN-000203	Metates
P-19-000204	CA-LAN-000204	

## Report Detail: LA-03583

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P-19-000205	CA-LAN-000205	Dume Point
P-19-000206	CA-LAN-000206	William Deane's site #6
P-19-000207	CA-LAN-000207	
P-19-000210	CA-LAN-000210	Solstice Canyon Site; Sapo Ron
P-19-000211	CA-LAN-000211	William Deane's Site #1
P-19-000212	CA-LAN-000212	
P-19-000213	CA-LAN-000213	LA-31
P-19-000214	CA-LAN-000214	
P-19-000215	CA-LAN-000215	
P-19-000216	CA-LAN-000216	
P-19-000217	CA-LAN-000217	City of Malibu Planning
P-19-000219	CA-LAN-000219	
P-19-000220	CA-LAN-000220	Ridge Mandeville
P-19-000222	CA-LAN-000222	
P-19-000224	CA-LAN-000224	Temescal Canyon
P-19-000225	CA-LAN-000225	Century Ranch
P-19-000226	CA-LAN-000226	Mariscos Site
P-19-000227	CA-LAN-000227	
P-19-000229	CA-LAN-000229	Restaurant Site
P-19-000231	CA-LAN-000231	
P-19-000232	CA-LAN-000232	
P-19-000233	CA-LAN-000233	
P-19-000234	CA-LAN-000234	Puvunga Indian Village Site
P-19-000235	CA-LAN-000235	Puvunga Indian Village Site
P-19-000236	CA-LAN-000236	
P-19-000245	CA-LAN-000245	
P-19-000255	CA-LAN-000255	
P-19-000263	CA-LAN-000263	DUPLICATE OF LAN-19
P-19-000264	CA-LAN-000264/H	MALIBU SITE, HUMALIWO (CH
P-19-000265	CA-LAN-000265	
P-19-000266	CA-LAN-000266	
P-19-000267	CA-LAN-000267	Sweetwater Mesa site, Winnikoff
P-19-000268	CA-LAN-000268	
P-19-000269	CA-LAN-000269	
P-19-000270	CA-LAN-000270	Los Altos
P-19-000271	CA-LAN-000271	
P-19-000272	CA-LAN-000272	
P-19-000273	CA-LAN-000273	Margo Street Site
P-19-000274	CA-LAN-000274	
P-19-000275	CA-LAN-000275	
P-19-000276	CA-LAN-000276	Racer's Site #5
P-19-000277	CA-LAN-000277	Tor. 2
P-19-000278	CA-LAN-000278	Tor. 3
P-19-000279	CA-LAN-000279	Racer's Site #4
P-19-000280	CA-LAN-000280	Eberhart #11
P-19-000281	CA-LAN-000281	Tor. 6
P-19-000282	CA-LAN-000282	Duplicate of LAN-94
P-19-000283	CA-LAN-000283	Barton Hill and Knoll Hill Extensi
P-19-000284	CA-LAN-000284	Tor. 9
P-19-000285	CA-LAN-000285	Racer's Site #1
P-19-000286	CA-LAN-000286	Tor.11
P-19-000287	CA-LAN-000287	Eberhart #9
P-19-000288	CA-LAN-000288	Racer's Site #2
P-19-000289	CA-LAN-000289	Tor. 14
P-19-000291	CA-LAN-000291	San Pedro 1
P-19-000292	CA-LAN-000292	
P-19-000303	CA-LAN-000303	
P-19-000306	CA-LAN-000306	Puvunga Indian Village Site / Lo
P-19-000307	CA-LAN-000307	

## Report Detail: LA-03583

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P-19-000308	CA-LAN-000308	Cheese Rock
P-19-000309	CA-LAN-000309	
P-19-000310	CA-LAN-000310	Cima Site
P-19-000311	CA-LAN-000311	Barbacoa Site
P-19-000316	CA-LAN-000316	
P-19-000317	CA-LAN-000317	
P-19-000319	CA-LAN-000319	
P-19-000322	CA-LAN-000322	
P-19-000330	CA-LAN-000330	Shelter Complex 2, Topanga Sur
P-19-000331	CA-LAN-000331	Topanga #31
P-19-000332	CA-LAN-000332	Topanga #32
P-19-000333	CA-LAN-000333	Complex II
P-19-000335	CA-LAN-000335	Morning View Site
P-19-000340	CA-LAN-000340	Santa Maria Creek
P-19-000341	CA-LAN-000341	Topanga #28
P-19-000344	CA-LAN-000344	Hollywood Riviera Site
P-19-000350	CA-LAN-000350	
P-19-000352	CA-LAN-000352	San Nicholas Canyon Site
P-19-000353	CA-LAN-000353	
P-19-000354	CA-LAN-000354	
P-19-000356	CA-LAN-000356	
P-19-000382	CA-LAN-000382/H	Serra Springs, Unihi Site
P-19-000383	CA-LAN-000383	
P-19-000385	CA-LAN-000385	
P-19-000386	CA-LAN-000386	
P-19-000387	CA-LAN-000387H	TADIA RANCH
P-19-000388	CA-LAN-000388	Highland Cave, Five Shelters
P-19-000389	CA-LAN-000389	DOMINGNEZ HILLS #2
P-19-000390	CA-LAN-000390	DOMINGNEZ HILLS #1
P-19-000398	CA-LAN-000398	
P-19-000400	CA-LAN-000400	
P-19-000401	CA-LAN-000401	
P-19-000403	CA-LAN-000403	
P-19-000404	CA-LAN-000404	
P-19-000406	CA-LAN-000406	
P-19-000415	CA-LAN-000415	Ramirez Canyon #1
P-19-000423	CA-LAN-000423	VOID
P-19-000424	CA-LAN-000424	
P-19-000425	CA-LAN-000425	
P-19-000448	CA-LAN-000448	Old Santa Susana Stage Road /
P-19-000454	CA-LAN-000454	
P-19-000468	CA-LAN-000468	The Guess Who, Not Bernie Ne
P-19-000469	CA-LAN-000469	The Garden Site
P-19-000470	CA-LAN-000470	
P-19-000472	CA-LAN-000472	JOHN'S ROCKSHELTER
P-19-000478	CA-LAN-000478	
P-19-000483	CA-LAN-000483	AVC-1
P-19-000484	CA-LAN-000484	AVC-2
P-19-000494	CA-LAN-000494	JZ-1
P-19-000495	CA-LAN-000495	EC-2
P-19-000496	CA-LAN-000496	EC-3
P-19-000497	CA-LAN-000497	EC-4
P-19-000499	CA-LAN-000499	T-1
P-19-000500	CA-LAN-000500	T-2
P-19-000501	CA-LAN-000501	Kybo
P-19-000505	CA-LAN-000505	Monte Nido #1
P-19-000506	CA-LAN-000506	Monte Nido #2
P-19-000512	CA-LAN-000512	
P-19-000513	CA-LAN-000513	

## Report Detail: LA-03583

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P-19-000514	CA-LAN-000514	
P-19-000515	CA-LAN-000515	
P-19-000516	CA-LAN-000516/H	Lake Vineyard Ranch Site
P-19-000517	CA-LAN-000517	
P-19-000519	CA-LAN-000519	
P-19-000520	CA-LAN-000520	
P-19-000523	CA-LAN-000523	
P-19-000525	CA-LAN-000525	
P-19-000526	CA-LAN-000526	DUPLICATE OF LAN-477
P-19-000527	CA-LAN-000527	T-1 or T-2
P-19-000528	CA-LAN-000528	Montgomery/Brookins House
P-19-167019		Avila Adobe
P-19-179270		Rancho Los Cerritos

No. resources: 285

Has informals:

### Location information

County(ies): Los Angeles

USGS quad(s): ANAHEIM, BALDWIN PARK, BEVERLY HILLS, EL MONTE, HOLLYWOOD, INGLEWOOD, LA HABRA, LONG BEACH, LOS ALAMITOS, LOS ANGELES, MALIBU BEACH, NEWPORT BEACH, POINT DUME, REDONDO BEACH, SAN PEDRO, SEAL BEACH, SOUTH GATE, TOPANGA, TORRANCE, TRIUNFO PASS, VENICE, WHITTIER

Address:

PLSS:

### Database record metadata

Date User

Entered: 5/5/2008 jay

Last modified: 12/4/2014 agarcia

IC actions: Date User Action taken

5/6/2008 jay Appended records from old Surveys database.

12/4/2014 agarcia GIS QC

Record status:

# Report Detail: LA-04323

---

## Identifiers

Report No.: LA-04323

Other IDs:

Cross-refs:

## Citation information

Author(s): Hill, James N.

Year: 1985

Title: Cultural Evolution in the Archaic/mesolithic: a Research Design for the Los Angeles Basin

Affiliation: Archaeological Resource Management Corp.

No. pages: 124

No. maps:

Attributes: Other research

Inventory size: Unknown

Disclosure: Not for publication

Collections: No

## General notes

Mapped to entire LA County (except islands) in Other Reports.

## Associated resources

No. resources: 0

Has informals:

## Location information

County(ies): Los Angeles

USGS quad(s): ACTON, ADOBE MTN, AGUA DULCE, ALPINE BUTTE, AZUSA, BALDWIN PARK, BEVERLY HILLS, BLACK MTN, BURBANK, BURNT PEAK, CALABASAS, CANOGA PARK, CHILAO FLAT, COBBLESTONE MTN, CONDOR PEAK, CRYSTAL LAKE, DEL SUR, EL MIRAGE, EL MONTE, FAIRMONT BUTTE, FRAZIER MOUNTAIN, GLENDORA, GREEN VALLEY, HI VISTA, HOLLYWOOD, INGLEWOOD, JACKRABBIT HILL, JUNIPER HILLS, LA HABRA, LA LIEBRE RANCH, LAKE HUGHES, LANCASTER EAST, LANCASTER WEST, LEBEC, LIEBRE MTN, LITTLE BUTTES, LITTLEROCK, LONG BEACH, LOS ALAMITOS, LOS ANGELES, LOVEJOY BUTTES, MALIBU BEACH, MESCAL CREEK, MINT CANYON, MOUNT SAN ANTONIO, MT BALDY, MT WILSON, NEENACH SCHOOL, NEWHALL, OAT MOUNTAIN, ONTARIO, PACIFICO MOUNTAIN, PALMDALE, PASADENA, POINT DUME, REDMAN, REDONDO BEACH, RITTER RIDGE, ROGERS LAKE SOUTH, ROSAMOND, ROSAMOND LAKE, SAN DIMAS, SAN FERNANDO, SAN PEDRO, SANTA SUSANA, SEAL BEACH, SLEEPY VALLEY, SOUTH GATE, SUNLAND, THOUSAND OAKS, TOPANGA, TORRANCE, TRIUNFO PASS, VAL VERDE, VALYERMO, VAN NUYS, VENICE, WARM SPRINGS MOUNTAIN, WATERMAN MTN, WHITAKER PEAK, WHITTIER, YORBA LINDA

Address:

PLSS:

## Database record metadata

Date User

Entered: 5/5/2008 jay

Last modified: 9/16/2014 agarcia

IC actions: Date User Action taken

5/6/2008 jay Appended records from old Surveys database.

11/20/201 agarcia Mapped as Other Reports.

Record status:

# Report Detail: LA-06859

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## Identifiers

Report No.: LA-06859

Other IDs:

Cross-refs:

## Citation information

Author(s): Unknown

Year: 1996

Title: Arcadia General Plan

Affiliation: LSA Associates, Inc.

No. pages: 26

No. maps:

Attributes: Management/planning

Inventory size: 11 square miles

Disclosure:

Collections:

## General notes

### Associated resources

Primary No.	Trinomial	Name
P-19-001868	CA-LAN-001868H	ARCADIA SERVICE CENTER

No. resources: 1

Has informals:

### Location information

County(ies): Los Angeles

USGS quad(s): EL MONTE, MT WILSON

Address:

PLSS:

### Database record metadata

Date	User
------	------

Entered: 5/5/2008	jay
-------------------	-----

Last modified: 8/7/2014	agarcia
-------------------------	---------

IC actions: Date	User	Action taken
------------------	------	--------------

5/6/2008	jay	Appended records from old Surveys database.
----------	-----	---

Record status:



# Report Detail: LA-08211

---

## Identifiers

Report No.: LA-08211

Other IDs:

Cross-refs:

## Citation information

Author(s): Bonner, Wayne H.

Year: 2005

Title: Cultural Resource Records Search Results and Site Visit for Cingular Telecommunications Facility Candidate EI-0150-01 (village Presbyterian Church), 2733 South 10th Avenue, Arcadia, Los Angeles County, California

Affiliation: Michael Brandman Associates

No. pages:

No. maps:

Attributes: Archaeological, Field study

Inventory size: <1 ac

Disclosure:

Collections:

## General notes

## Associated resources

No. resources: 0

Has informals:

## Location information

County(ies): Los Angeles

USGS quad(s): EL MONTE

Address:

PLSS:

## Database record metadata

Date	User
------	------

Entered: 5/5/2008	jay
-------------------	-----

Last modified:

IC actions:	Date	User	Action taken
-------------	------	------	--------------

	5/6/2008	jay	Appended records from old Surveys database.
--	----------	-----	---

Record status:

# Report Detail: LA-09238

---

## Identifiers

*Report No.:* LA-09238

*Other IDs:*

*Cross-refs:*

## Citation information

*Author(s):* Bonner, Wayne H.

*Year:* 2007

*Title:* Cultural Resources Records Search and Site Visit Results for Royal Street Communications, LLC Candidate LA0103B (Longden Church), 1307 East Longden Avenue, Arcadia, Los Angeles County, California

*Affiliation:* Michael Brandman Associates

*No. pages:* 14

*No. maps:*

*Attributes:* Archaeological, Field study

*Inventory size:*

*Disclosure:*

*Collections:*

## General notes

## Associated resources

*No. resources:* 0

*Has informals:*

## Location information

*County(ies):* Los Angeles

*USGS quad(s):* EL MONTE

*Address:*

*PLSS:*

## Database record metadata

*Date*      *User*

*Entered:* 9/3/2008

*Last modified:*

*IC actions:*    *Date*      *User*

9/3/2008    jay

*Action taken*

Appended records from Biblio database (second round of additions)

*Record status:*

## Report Detail: LA-10583

---

### Identifiers

*Report No.:* LA-10583

*Other IDs:*

*Cross-refs:*

### Citation information

*Author(s):* Billat, Lorna

*Year:* 2010

*Title:* New Tower Submission Packet - Village Presbyterian Church, LA0103C

*Affiliation:* EarthTouch, Inc

*No. pages:* 18

*No. maps:*

*Attributes:* Archaeological, Field study

*Inventory size:*

*Disclosure:* Not for publication

*Collections:* No

### General notes

#### Associated resources

*No. resources:* 0

*Has informals:*

#### Location information

*County(ies):* Los Angeles

*USGS quad(s):* EL MONTE

*Address:*

*PLSS:*

#### Database record metadata

<i>Date</i>	<i>User</i>
-------------	-------------

<i>Entered:</i> 9/1/2010	agarcia
--------------------------	---------

<i>Last modified:</i> 9/1/2010	agarcia
--------------------------------	---------

*IC actions:*

*Record status:*

# Report Detail: LA-11108

---

## Identifiers

Report No.: LA-11108

Other IDs:

Cross-refs:

## Citation information

Author(s): Sims, Douglas

Year: 2010

Title: CA-LOS4051a, 4064 East Live Oak, Arcadia, CA 91006

Affiliation: Sims & Associates

No. pages: 29

No. maps:

Attributes: Literature search

Inventory size:

Disclosure: Not for publication

Collections: No

## General notes

### Associated resources

No. resources: 0

Has informals:

### Location information

County(ies): Los Angeles

USGS quad(s): EL MONTE

Address: Address

4064 East Live Oak

City

Arcadia

Assessor's parcel no.

Zip code

PLSS:

### Database record metadata

Date User

Entered: 10/4/2011 agarcia

Last modified: 10/4/2011 agarcia

IC actions:

Record status:

# Report Detail: LA-11484

---

## Identifiers

*Report No.:* LA-11484

*Other IDs:*

*Cross-refs:*

## Citation information

*Author(s):* Walker, E.F. and Robinson, Eugene

*Year:*

*Title:* Partial List of Indian Village Sites in Lost [sic] Angeles County, with a few in Orange County. (Information from Eugene Robinson, Handwritten, in "Reconnaissance Sites 15F" looseleaf notbook of Mr. E.F. Walker, Southwest Museum, Los Angeles, California)

*Affiliation:* Southwest Museum

*No. pages:* 6

*No. maps:*

*Attributes:* Archaeological, Other research

*Inventory size:*

*Disclosure:* Not for publication

*Collections:* Unknown

## General notes

Mapped to quads in GIS as Other Report. Also recorded as OR4157

## Associated resources

*No. resources:* 0

*Has informals:*

## Location information

*County(ies):* Los Angeles

*USGS quad(s):* AZUSA, BALDWIN PARK, BEVERLY HILLS, CALABASAS, CHILAO FLAT, CONDOR PEAK, INGLEWOOD, LONG BEACH, LOS ALAMITOS, LOS ANGELES, MT WILSON, REDONDO BEACH, SAN PEDRO, SANTA CATALINA EAST, SUNLAND, TOPANGA, TORRANCE, VENICE

*Address:*

*PLSS:*

## Database record metadata

*Date*      *User*

*Entered:* 2/7/2012    Inoyes

*Last modified:* 10/24/201    agarcia

*IC actions:*    *Date*      *User*      *Action taken*

10/24/201    agarcia      Mapped to quads in GIS as Other Report

*Record status:*

# Report Detail: LA-11747

---

## Identifiers

Report No.: LA-11747

Other IDs:

Cross-refs:

## Citation information

Author(s): Sakai, Rodney

Year: 2006

Title: Programmatic Agreement Compliance Report, twenty-first Reporting Period, July 1, 2005-- March 31, 2006

Affiliation: Historic Resources Group

No. pages: 80

No. maps:

Attributes: Architectural/historical

Inventory size:

Disclosure: Not for publication

Collections: No

## General notes

Mapped to entire LA County in Other Reports layer

## Associated resources

No. resources: 0

Has informals:

## Location information

County(ies): Los Angeles

USGS quad(s): ACTON, ADOBE MTN, AGUA DULCE, ALPINE BUTTE, AZUSA, BALDWIN PARK, BEVERLY HILLS, BLACK MTN, BURBANK, BURNT PEAK, CALABASAS, CANOGA PARK, CHILAO FLAT, COBBLESTONE MTN, CONDOR PEAK, CRYSTAL LAKE, DEL SUR, EL MIRAGE, EL MONTE, FAIRMONT BUTTE, FRAZIER MOUNTAIN, GLENDORA, GREEN VALLEY, HI VISTA, HOLLYWOOD, INGLEWOOD, JACKRABBIT HILL, JUNIPER HILLS, LA HABRA, LA LIEBRE RANCH, LAKE HUGHES, LANCASTER EAST, LANCASTER WEST, LEBEC, LIEBRE MTN, LITTLE BUTTES, LITTLEROCK, LONG BEACH, LOS ALAMITOS, LOS ANGELES, LOVEJOY BUTTES, MALIBU BEACH, MESCAL CREEK, MINT CANYON, MOUNT SAN ANTONIO, MT BALDY, MT WILSON, NEENACH SCHOOL, NEWHALL, OAT MOUNTAIN, ONTARIO, PACIFICO MOUNTAIN, PALMDALE, PASADENA, POINT DUME, REDMAN, REDONDO BEACH, RITTER RIDGE, ROGERS LAKE SOUTH, ROSAMOND, ROSAMOND LAKE, SAN DIMAS, SAN FERNANDO, SAN PEDRO, SANTA SUSANA, SEAL BEACH, SLEEPY VALLEY, SOUTH GATE, SUNLAND, THOUSAND OAKS, TOPANGA, TORRANCE, TRIUNFO PASS, VAL VERDE, VALYERMO, VAN NUYS, VENICE, WARM SPRINGS MOUNTAIN, WATERMAN MTN, WHITAKER PEAK, WHITTIER, YORBA LINDA

Address:

PLSS:

## Database record metadata

Date User

Entered: 8/17/2012 Inoyes

Last modified: 9/16/2014 agarcia

IC actions: Date User Action taken

1/4/2013 agarcia Data updated, mapped in Other Reports layer.

Record status:

## Report Detail: LA-11748

---

### Identifiers

*Report No.:* LA-11748

*Other IDs:*

*Cross-refs:*

### Citation information

*Author(s):* Sakai, Rodney

*Year:* 2003

*Title:* Programmatic Agreement Compliance Report Fifteenth Reporting Period July 1-- December 31, 2002

*Affiliation:* SHPO & Advisory Council on Historic Preservation

*No. pages:* 55

*No. maps:*

*Attributes:* Architectural/historical

*Inventory size:*

*Disclosure:* Not for publication

*Collections:* No

### General notes

Mapped to entire LA County in Other Reports layer

### Associated resources

*No. resources:* 0

*Has informals:*

### Location information

*County(ies):* Los Angeles

*USGS quad(s):* ACTON, ADOBE MTN, AGUA DULCE, ALPINE BUTTE, AZUSA, BALDWIN PARK, BEVERLY HILLS, BLACK MTN, BURBANK, BURNT PEAK, CALABASAS, CANOGA PARK, CHILAO FLAT, COBBLESTONE MTN, CONDOR PEAK, CRYSTAL LAKE, DEL SUR, EL MIRAGE, EL MONTE, FAIRMONT BUTTE, FRAZIER MOUNTAIN, GLENDORA, GREEN VALLEY, HI VISTA, HOLLYWOOD, INGLEWOOD, JACKRABBIT HILL, JUNIPER HILLS, LA HABRA, LA LIEBRE RANCH, LAKE HUGHES, LANCASTER EAST, LANCASTER WEST, LEBEC, LIEBRE MTN, LITTLE BUTTES, LITTLEROCK, LONG BEACH, LOS ALAMITOS, LOS ANGELES, LOVEJOY BUTTES, MALIBU BEACH, MESCAL CREEK, MINT CANYON, MOUNT SAN ANTONIO, MT BALDY, MT WILSON, NEENACH SCHOOL, NEWHALL, OAT MOUNTAIN, ONTARIO, PACIFICO MOUNTAIN, PALMDALE, PASADENA, POINT DUME, REDMAN, REDONDO BEACH, RITTER RIDGE, ROGERS LAKE SOUTH, ROSAMOND, ROSAMOND LAKE, SAN DIMAS, SAN FERNANDO, SAN PEDRO, SANTA SUSANA, SEAL BEACH, SLEEPY VALLEY, SOUTH GATE, SUNLAND, THOUSAND OAKS, TOPANGA, TORRANCE, TRIUNFO PASS, VAL VERDE, VALYERMO, VAN NUYS, VENICE, WARM SPRINGS MOUNTAIN, WATERMAN MTN, WHITAKER PEAK, WHITTIER, YORBA LINDA

*Address:*

*PLSS:*

### Database record metadata

*Date*      *User*

*Entered:* 8/17/2012 Inoyes

*Last modified:* 9/16/2014 agarcia

*IC actions:*    *Date*      *User*      *Action taken*

1/4/2013    agarcia      Data updated, mapped in Other Reports layer.

*Record status:*

# Report Detail: LA-11936

---

## Identifiers

Report No.: LA-11936

Other IDs:

Cross-refs:

## Citation information

Author(s): Bonner, Wayne

Year: 2012

Title: Cuultural Resources Records Search and Site Visit Results for T-Mobile West, LLc Candidate IE04587A (LA587 Longden Church), 1307 Longden Avenue, Arcadia, California

Affiliation: MBA

No. pages: 13

No. maps:

Attributes: Archaeological, Field study

Inventory size:

Disclosure:

Collections:

## General notes

## Associated resources

Primary No.	Trinomial	Name
-------------	-----------	------

P-19-190065		Church of the Annunciation
-------------	--	----------------------------

No. resources: 1

Has informals:

## Location information

County(ies): Los Angeles

USGS quad(s): EL MONTE

Address: Address

1307 Longden Ave

City

Arcadia, CA

Assessor's parcel no.

Zip code

PLSS:

## Database record metadata

Date	User
------	------

Entered: 1/17/2013	Inoyes
--------------------	--------

Last modified: 4/18/2013	Inoyes
--------------------------	--------

IC actions:

Record status:



# Report Detail: LA-12497

---

## Identifiers

Report No.: LA-12497

Other IDs:

Cross-refs:

## Citation information

Author(s): Maxon, Pat

Year: 2010

Title: Draft Program Environmental Impact Report, City of Arcadia, 2010 General Plan Update

Affiliation: BonTerra Consulting

No. pages: 25

No. maps:

Attributes: Management/planning

Inventory size:

Disclosure:

Collections:

## General notes

### Associated resources

Primary No.	Trinomial	Name
P-19-001868	CA-LAN-001868H	ARCADIA SERVICE CENTER
P-19-179332		Anoakia
P-19-179333		Queen Anne Cottage & Coach B
P-19-179334		Hugo Reid Adobe
P-19-179335		Queen Ann Cottage
P-19-179336		VOID
P-19-179337		Dentist Office
P-19-186674		Arcadia Self Storage
P-19-187703		650 W Duarte Rd
P-19-187944		Bridge #53C0596
P-19-188266		Security First National Bank Bld

No. resources: 11

Has informals:

### Location information

County(ies): Los Angeles

USGS quad(s): BALDWIN PARK, EL MONTE, MT WILSON

Address:

PLSS:

### Database record metadata

Date User

Entered: 3/26/2014 Inoyes

Last modified: 3/26/2014 Inoyes

IC actions:

Record status:



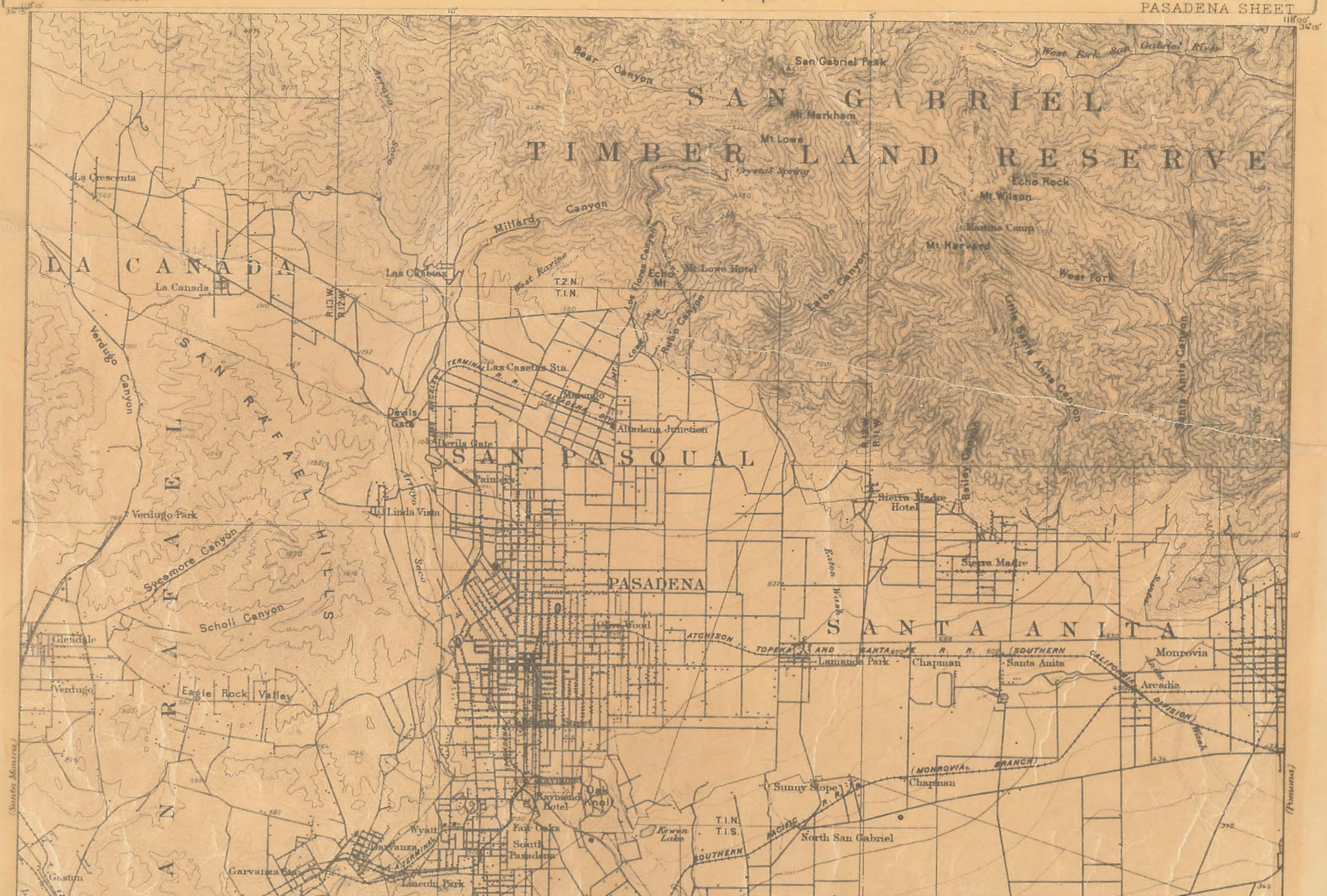




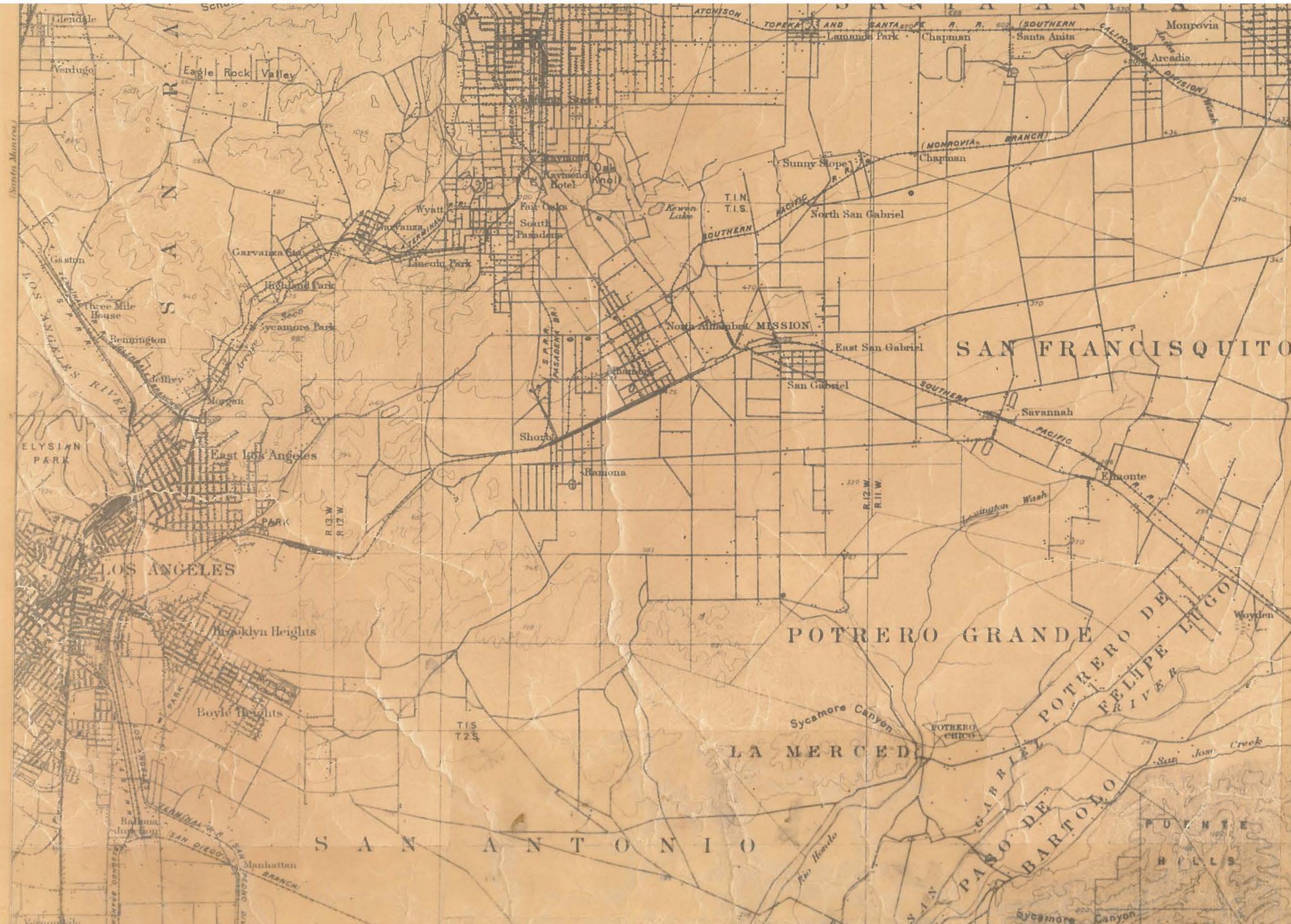
U. S. G. S.  
FILE COPY  
Editor of Topographic Maps.

U. S. GEOLOGICAL SURVEY,  
CHARLES D. WALCOTT,  
DIRECTOR.

CALIFORNIA  
(LOS ANGELES CO.)  
PASADENA SHEET







Henry Campbell, Chief Engineer  
 1886 made, see graph in change  
 triangulation by A.P. Davis  
 topography by L.C. Fisher and J. Davidson  
 completed in 1886

Flashed  
 Gypsum  
 Plaster

U.S.G.S.  
**FILE COPY**  
 Ed. Div. Topographic Maps

(Downey)  
 Scale 1:50,000  
 Contour Interval 50 Feet  
 Datum is mean sea level

USGS  
 Historical File  
 Topographic Division  
 U.S.G.S.  
**FILE COPY**  
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 Ed. Div. Topographic Maps

July 22-96  
 300





San Fernando  
La Crescenta  
Glendale  
Verdugo

(Tujunga)  
Rock Creek  
Emona





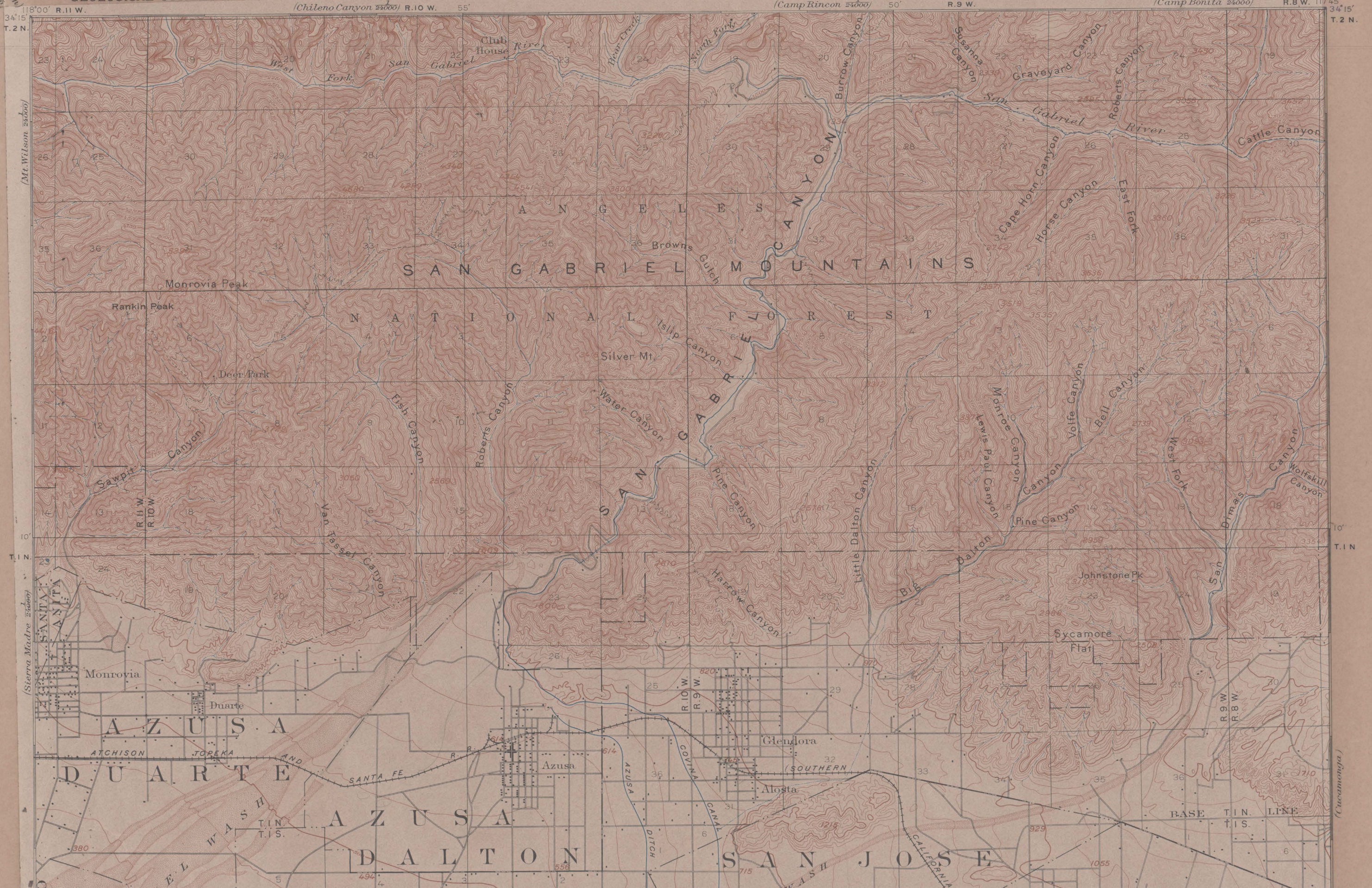


UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

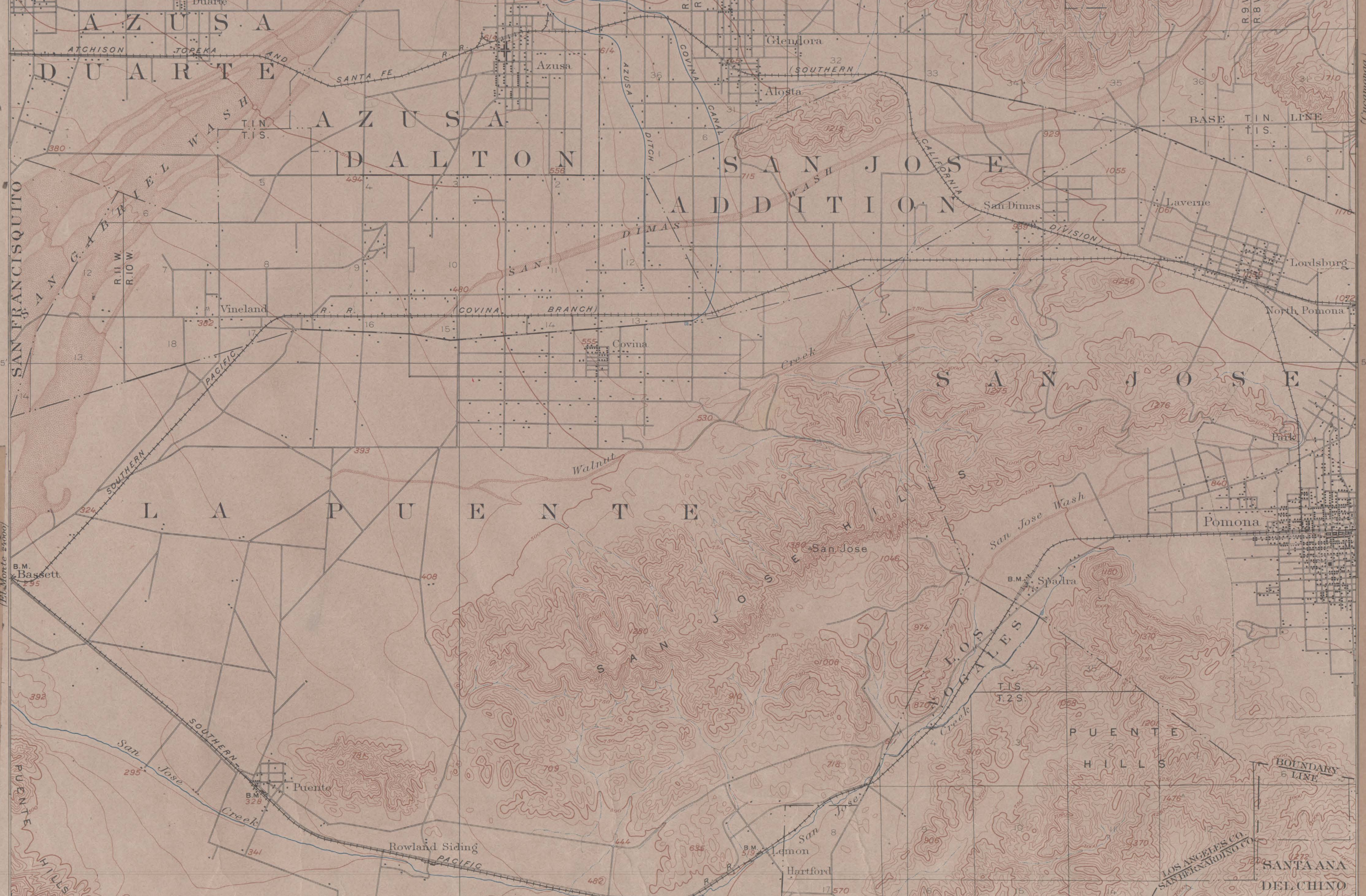
CALIFORNIA  
POMONA QUADRANGLE  
(Camp Bonita 3400)

(Mt. Wilson 2400)

(San Antonio)







Henry Gannett, Chief Topographer.  
 R.U. Goode, Geographer in charge.  
 Triangulation by A.P. Davis.  
 Topography by L.C. Fletcher and T.G. Gardine.  
 Surveyed in 1894.

TRUE NORTH  
 MAGNETIC NORTH  
 APPROXIMATE MEAN  
 DECLINATION 1902



CONTOUR INTERVAL 50 FEET  
 DATUM IS MEAN SEA LEVEL

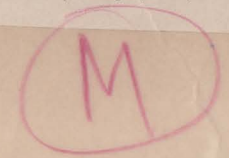
INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1960  
 Polyconic projection. To place on 1927 North American datum  
 move projection lines 560 feet south and 560 feet west

This area also covered by 1:24,000-scale maps  
 of Glendora, Azusa, Baldwin Park, and San Dimas  
 7.5-minute quadrangles, surveyed in 1953

FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.  
 A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

POMONA, CALIF.  
 N 3400—W 11745/15

1894



LOS ANGELES



118°00' R.11 W. 34'15" T.2 N. R.10 W. 55' (Rock Creek) 50' R.9 W. 34'15" T.2 N. R.8 W. 17°45' 34'15" T.2 N.



Map 2

(Francisco)

(Lordsburg)

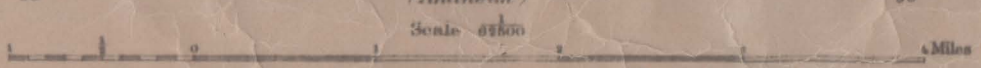




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**FILE COPY**  
 Ed. Div. Topographic Maps.

U.S.G.G.  
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Henry Gannett, Chief Topographer  
 R.U. Goode, Geographer in charge  
 Triangulation by A.P. Davis  
 Topography by L.C. Fletcher and T.G. Gardiner  
 Surveyed in 1894.



Contour interval 50 feet.  
 Datum is mean sea level.

**FILE COPY**  
 Ed. Div. Topographic Maps.

DIAGRAM OF TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

U.S. Geological Survey,  
 Historical File No. 11 1904 316  
 Topographic Division  
 Ed. Div. Topographic Maps.

Pomona, Cal.

Edition of Feb. 1904.



**Geotechnical  
Engineering  
Investigation**

---

**APPENDIX D**



**Geotechnologies, Inc.**

*Consulting Geotechnical Engineers*

439 Western Avenue  
Glendale, California 91201-2837  
818.240.9600 • Fax 818.240.9675

March 22, 2017  
File No. 21371

Bayer Management, Inc.  
4804 Laurel Canyon Boulevard, Suite 742  
Valley Village, California 91607

Attention: Daniel Bayar

Subject: Geotechnical Engineering Investigation  
Proposed Residential Development  
4343 and 4371 East Live Oak Avenue, Arcadia, California

Ladies and Gentlemen:

This letter transmits the Geotechnical Engineering Investigation for the subject site prepared by Geotechnologies, Inc. This report provides geotechnical recommendations for the development of the site, including earthwork, seismic design, excavations and foundation design. Engineering for the proposed project should not begin until approval of the geotechnical investigation is granted by the local building official. Significant changes in the geotechnical recommendations may result due to the building department review process.

The validity of the recommendations presented herein is dependent upon review of the geotechnical aspects of the project during construction by this firm. The subsurface conditions described herein have been projected from limited subsurface exploration and laboratory testing. The exploration and testing presented in this report should in no way be construed to reflect any variations which may occur between the exploration locations or which may result from changes in subsurface conditions.

Should you have any questions please contact this office.

Respectfully submitted,  
GEOTECHNOLOGIES, INC.

  
SCOTT T. PRINCE  
R.C.E. 83961



STP/EFH:ae

Distribution: (3) Addressee

Email to: [rthompson@gaineslaw.com]; Attn: Rebecca Thompson  
[dbayermanagement@gmail.com]; Attn: Daniel Bayar  
[matthew@aleksco.com]; Attn: Matthew Aleksich

## TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
INTRODUCTION .....	1
PROPOSED DEVELOPMENT.....	1
SITE CONDITIONS.....	2
GEOTECHNICAL EXPLORATION.....	2
FIELD EXPLORATION .....	2
Geologic Materials.....	3
Groundwater .....	3
Caving.....	4
SEISMIC EVALUATION.....	4
REGIONAL GEOLOGIC SETTING .....	4
REGIONAL FAULTING.....	4
SEISMIC HAZARDS AND DESIGN CONSIDERATIONS.....	5
Surface Rupture .....	5
Liquefaction .....	6
Dynamic Dry Settlement.....	8
Tsunamis, Seiches and Flooding.....	8
Landsliding .....	9
CONCLUSIONS AND RECOMMENDATIONS .....	9
SEISMIC DESIGN CONSIDERATIONS .....	10
2016 California Building Code Seismic Parameters .....	10
FILL SOILS .....	11
EXPANSIVE SOILS .....	11
WATER-SOLUBLE SULFATES .....	12
GRADING GUIDELINES .....	12
Site Preparation.....	12
Recommended Overexcavation .....	13
Compaction.....	13
Acceptable Materials .....	14
Utility Trench Backfill.....	14
Shrinkage .....	14
Weather Related Grading Considerations.....	15
Abandoned Seepage Pits.....	15
Geotechnical Observations and Testing During Grading.....	16
LEED Considerations .....	16
FOUNDATION DESIGN.....	17
Miscellaneous Foundations.....	18
Foundation Reinforcement.....	18
Lateral Design.....	19
Foundation Settlement .....	19
Foundation Observations .....	19
RETAINING WALL DESIGN.....	20
Cantilever Retaining Walls.....	20
Restrained Drained Retaining Walls.....	20



## TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
Retaining Wall Drainage.....	22
Sump Pump Design.....	23
Dynamic (Seismic) Earth Pressure .....	23
Waterproofing .....	23
Retaining Wall Backfill .....	24
TEMPORARY EXCAVATIONS .....	24
Excavation Observations .....	25
SHORING DESIGN .....	25
Soldier Piles Drilled and Poured.....	26
Soldier Piles – Vibrated .....	27
Lagging .....	29
Lateral Pressures .....	29
Raker Brace Foundations .....	30
Deflection.....	31
Monitoring .....	31
Shoring Observations.....	31
SLABS ON GRADE.....	32
Concrete Slabs-on Grade .....	32
Design of Slabs That Receive Moisture-Sensitive Floor Coverings .....	32
Concrete Crack Control .....	33
Slab Reinforcing .....	34
PAVEMENTS.....	34
SITE DRAINAGE .....	36
DESIGN REVIEW .....	36
CONSTRUCTION MONITORING .....	37
SOIL CORROSION POTENTIAL.....	37
EXCAVATION CHARACTERISTICS .....	38
CLOSURE AND LIMITATIONS .....	38
GEOTECHNICAL TESTING.....	39
Classification and Sampling .....	39
Moisture and Density Relationships .....	40
Direct Shear Testing .....	40
Consolidation Testing .....	40
Expansion Index Testing.....	41
Laboratory Compaction Characteristics .....	41
ENCLOSURES	
References	
Vicinity Map	
Local Geologic Map	
Historically Highest Groundwater Levels	
Seismic Hazard Zone Map	
Plot Plan	



**Geotechnologies, Inc.**

439 Western Avenue, Glendale, California 91201-2837 • Tel: 818.240.9600 • Fax: 818.240.9675

[www.geoteq.com](http://www.geoteq.com)



## TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
ENCLOSURES - continued	
Plates A-1 through A-10	
Plates B-1 and B-2	
Plate C	
Plate D	
Calculations (6 Pages)	
Corrosivity Study (10 Pages)	



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**GEOTECHNICAL ENGINEERING INVESTIGATION  
PROPOSED RESIDENTIAL DEVELOPMENT  
4343 AND 4371 EAST LIVE OAK AVENUE  
ARCADIA, CALIFORNIA**

**INTRODUCTION**

This report presents the results of the geotechnical engineering investigation performed on the subject site. The purpose of this investigation was to identify the distribution and engineering properties of the geologic materials underlying the site, and to provide geotechnical recommendations for the design of the proposed development.

This investigation included 10 exploratory excavations, collection of representative samples, laboratory testing, engineering analysis, review of available geotechnical engineering information and the preparation of this report. The exploratory excavation locations are shown on the enclosed Plot Plan. The results of the exploration and the laboratory testing are presented in the Appendix of this report.

**PROPOSED DEVELOPMENT**

Information concerning the proposed development was furnished by the client. The proposed development consists of the construction of a residential development. The proposed structures will be up to 3-stories in height and constructed at or near existing site grade. It is possible that the building will be built upon a subterranean parking level. Grading will consist of removal and recompaction of existing unsuitable soils. Should the subterranean option be selected, grading will consist of excavations up to 12 feet for the proposed basement.

Any changes in the design of the project or location of any structure, as outlined in this report, should be reviewed by this office. The recommendations contained in this report should not be considered valid until reviewed and modified or reaffirmed, in writing, subsequent to such review.



**Geotechnologies, Inc.**

439 Western Avenue, Glendale, California 91201-2837 • Tel: 818.240.9600 • Fax: 818.240.9675  
www.geoteq.com

## **SITE CONDITIONS**

The site is located at 4343 and 4371 East Live Oak Avenue in the City of Arcadia, California. The site is bounded by existing residential structures to the north, existing residential structures to the east, East Live Oak Avenue to the south, and South Mayflower Avenue to the west. Commercial structures border the southwest region of the site at the intersection of East Live Oak Avenue and South Mayflower Avenue.

The existing grade within the site descends gently to the southwest. There is an approximate elevation difference of three feet across the site, ranging from elevation 356 feet in the northeastern region, to elevation 353 feet in the southwest region for an overall site gradient of 175 to 1 (horizontal to vertical).

The site is currently developed as a trailer park including open field areas. Vegetation on the site consists of grass and trees in discrete locations. Drainage appears to be by sheetflow toward city streets. The site topography is shown on the attached Plot Plan and Vicinity Map.

## **GEOTECHNICAL EXPLORATION**

### **FIELD EXPLORATION**

The site was explored on February 13, 2017 and February 14, 2017 by excavating 10 exploratory excavations. The excavations varied in depth between 20 and 50 feet below the existing site grade, and were performed with the aid of a truck-mounted drilling machine using 8-inch diameter hollowstem augers and hand labor. The exploration locations are shown on the Plot Plan and the geologic materials encountered are logged on Plates A-1 through A-10.



The locations of the exploratory excavations were determined by measurements from hardscape features shown on the attached Plot Plan. The locations of the exploratory excavations should be considered accurate only to the degree implied by the method used.

### **Geologic Materials**

The geologic materials underlying the site consist of fill soil and alluvium. Fill soil consists of silty sand to sandy silt that is dark brown in color, and is moist, medium dense, stiff and fine grained. The fill was encountered in the exploratory excavations to depths of up to 5 feet below the existing site grade.

Alluvial soils underlie the fill and consist of interlayered mixtures of sandy silt to silty sand and sand with cobbles. The alluvial soils range in color from dark brown to dark yellowish or grayish brown, and is moist, medium dense to very dense, stiff and fine to coarse grained. More detailed descriptions of the geologic materials encountered may be obtained from individual logs of the subsurface excavations. The distribution of geologic materials is also shown on the attached Local Geologic Map included in the Appendix.

### **Groundwater**

Groundwater was not encountered within the 50 foot depth explored as indicated by Boring 7. Los Angeles County water well records indicate that the closest monitoring well to the site is Well 4198R. This well is on the order of ¼ mile northeast of the site. The water depth at the last measurement on November 11, 2015 is reported to be 156.5 feet below ground surface. The historic high groundwater level is based on review of the California Geological Survey Seismic Hazard Evaluation Report 024 (2005). Review of this report indicates that the historically highest groundwater level was on the order of 47 feet below grade. A copy of this plate is included in the Appendix as Historically Highest Groundwater Levels Map.



Fluctuations in the level of groundwater may occur due to variations in rainfall, temperature, and other factors not evident at the time of the measurements reported herein. Fluctuations also may occur across the site. High groundwater levels can result in changed conditions.

### **Caving**

Caving could not be directly observed during exploration. Based on the experience of this firm, large diameter excavations that encounter granular, cohesionless soils, and excavations below the groundwater table, will most likely experience caving.

## **SEISMIC EVALUATION**

### **REGIONAL GEOLOGIC SETTING**

The subject property is located in the Peninsular Ranges Geomorphic Province. The Peninsular Ranges are characterized by northwest-trending blocks of mountain ridges and sediment-floored valleys. The dominant geologic structural features are northwest trending fault zones that either die out to the northwest or terminate at east-trending reverse faults that form the southern margin of the Transverse Ranges. The site is shown relative to local geology and topography on the enclosed Local Geologic Map.

### **REGIONAL FAULTING**

Based on criteria established by the California Division of Mines and Geology (CDMG) now called California Geologic Survey (CGS), faults may be categorized as active, potentially active, or inactive. Active faults are those which show evidence of surface displacement within the last 11,000 years (Holocene-age). Potentially-active faults are those that show evidence of most recent surface displacement within the last 1.6 million years (Quaternary-age). Faults showing no evidence of surface displacement within the last 1.6 million years are considered inactive for most purposes, with the exception of design of some critical structures.



Buried thrust faults are faults without a surface expression but are a significant source of seismic activity. They are typically broadly defined based on the analysis of seismic wave recordings of hundreds of small and large earthquakes in the southern California area. Due to the buried nature of these thrust faults, their existence is usually not known until they produce an earthquake. The risk for surface rupture potential of these buried thrust faults is inferred to be low (Leighton, 1990). However, the seismic risk of these buried structures in terms of recurrence and maximum potential magnitude is not well established. Therefore, the potential for surface rupture on these surface-verging splays at magnitudes higher than 6.0 cannot be precluded.

### **SEISMIC HAZARDS AND DESIGN CONSIDERATIONS**

The primary geologic hazard at the site is moderate to strong ground motion (acceleration) caused by an earthquake on any of the local or regional faults. The potential for other earthquake-induced hazards was also evaluated including surface rupture, liquefaction, dynamic settlement, inundation and landsliding.

#### **Surface Rupture**

In 1972, the Alquist-Priolo Special Studies Zones Act (now known as the Alquist-Priolo Earthquake Fault Zoning Act) was passed into law. The Act defines “active” and “potentially active” faults utilizing the same aging criteria as that used by California Geological Survey (CGS). However, established state policy has been to zone only those faults which have direct evidence of movement within the last 11,000 years. It is this recency of fault movement that the CGS considers as a characteristic for faults that have a relatively high potential for ground rupture in the future.

CGS policy is to delineate a boundary from 200 to 500 feet wide on each side of the known fault trace based on the location precision, the complexity, or the regional significance of the fault. If a site lies within an Earthquake Fault Zone, a geologic fault rupture investigation must be performed





that demonstrates that the proposed building site is not threatened by surface displacement from the fault before development permits may be issued.

Surface rupture is defined as displacement which occurs along the surface trace of the causative fault during an earthquake. Based on research of available literature and results of site reconnaissance, no known active or potentially active faults underlie the subject site. In addition, the subject site is not located within an Alquist-Priolo Earthquake Fault Zone. Based on these considerations, the potential for surface ground rupture at the subject site is considered low.

### **Liquefaction**

Liquefaction is a phenomenon in which saturated silty to cohesionless soils below the groundwater table are subject to a temporary loss of strength due to the buildup of excess pore pressure during cyclic loading conditions such as those induced by an earthquake. Liquefaction-related effects include loss of bearing strength, amplified ground oscillations, lateral spreading, and flow failures.

The Seismic Hazards Map for the El Monte 7.5-Minute Quadrangle (CDMG, 1999), does not identify the site as potentially liquefiable. This determination is based on groundwater depth records, soil type and distance to a fault capable of producing a substantial earthquake.

A site-specific liquefaction analysis was performed following the Recommended Procedures for Implementation of the California Geologic Survey Special Publication 117A, Guidelines for Analyzing and Mitigating Seismic Hazards in California (CGS, 2008), and the EERI Monograph (MNO-12) by Idriss and Boulanger (2008). This semi-empirical method is based on a correlation between measured values of Standard Penetration Test (SPT) resistance and field performance data.

Groundwater was not encountered during exploration to a depth of 50 feet below the ground surface. According to the Seismic Hazard Zone Report of the El Monte 7½-Minute Quadrangle



(CDMG, 1998), the historic high groundwater level for the subject site was 47 feet below the ground surface. A groundwater level of 47 feet below the ground surface was utilized for the enclosed liquefaction analysis.

The peak ground acceleration (PGA) and modal magnitude were obtained from the USGS websites, using the Probabilistic Seismic Hazard Deaggregation program (USGS, 2008) and the U.S. Seismic Design Maps tool (USGS, 2013). A Site Class “D” (Stiff Soil Profile) and a published shear wave velocity of 230 meters per second were utilized for Vs30 (Tinsley and Fumal, 1985) in the USGS seismic programs. A modal magnitude (MW) of 6.6 was obtained using the USGS Probabilistic Seismic Hazard Deaggregation program (USGS, 2008). A peak ground acceleration of 0.75g, corresponding to a seismic event with a mean return interval of 2,475 years (2% exceedance in 50 years) was obtained using the U.S. Seismic Design Maps tool. These parameters were used in the enclosed liquefaction analysis.

The enclosed “Liquefaction Evaluation” calculation sheet is based on Boring 7. Standard Penetration Test (SPT) data were collected at 5-foot intervals. Samples of the collected materials were conveyed to the laboratory for testing and analysis. Based on CGS Special Publication 117A (CDMG, 2008), the vast majority of liquefaction hazards are associated with sandy soils and silty soils of low plasticity. Furthermore, cohesive soils with PI between 7 and 12 and moisture content greater than 85 percent of the liquid limit are susceptible to liquefaction.

The procedure presented in the SP117A guidelines was followed in analyzing the liquefaction potential of the subject site. The SP 117A guidelines were developed based on a paper titled, “Assessment of the Liquefaction Susceptibility of Fine-Grained Soils”, by Bray and Sancio (2006). According to the SP 117A, soils having a Plastic Index greater than 18 exhibit clay-like behavior, and the liquefaction potential of these soils are considered to be low. Therefore, where the results of Atterberg Limits testing showed a Plastic Index greater than 18, the soils would be considered non-liquefiable, and the analysis of these soil layers was turned off in the liquefaction susceptibility column.



Based on the adjusted blow count data, results of laboratory testing, and the calculated factor of safety against the occurrence of liquefaction, it is the opinion of this firm that the potential for liquefaction at the site is considered to be remote.

### **Dynamic Dry Settlement**

Seismically-induced settlement or compaction of dry or moist, cohesionless soils can be an effect related to earthquake ground motion. Such settlements are typically most damaging when the settlements are differential in nature across the length of structures.

Some seismically-induced settlement of the proposed structure should be expected as a result of strong ground-shaking, however, due to the uniform nature of the underlying geologic materials, excessive differential settlements are not expected to occur.

### **Tsunamis, Seiches and Flooding**

Tsunamis are large ocean waves generated by sudden water displacement caused by a submarine earthquake, landslide, or volcanic eruption. Review of the County of Los Angeles Tsunami Inundation Map (Leighton, 1990) indicates the site does not lie within the mapped tsunami inundation boundaries.

Seiches are large waves generated in enclosed bodies of water in response to ground shaking. Review of the County of Los Angeles Safety Element, (Leighton, 1990) the site lies within mapped inundation boundary due to a breach an upgradient reservoir. A determination of whether a higher site elevation would remove the site from the potential inundation zones is beyond the scope of this investigation.



## **Landsliding**

The probability of seismically-induced landslides occurring on the site is considered to be low due to the general lack of elevation difference across, or adjacent to, the site.

## **CONCLUSIONS AND RECOMMENDATIONS**

Based upon the exploration, laboratory testing, and research, it is the finding of Geotechnologies, Inc. that construction of the proposed residential development is considered feasible from a geotechnical engineering standpoint provided the advice and recommendations presented herein are followed and implemented during construction.

The site is underlain by fill soils that consist of silty sand and sandy silt that extend to a maximum depth of 5 feet. Natural alluvial soils underlie the fill and consist of silty sand and sand that is medium dense to very dense. The site is not located within an earthquake fault zone. The site was not determined to be subject to liquefaction during a design based earthquake.

The existing fill materials are not suitable for support of the proposed foundations, floor slabs or additional fill. Existing fill materials should be completely removed within the building area and recompacted. In addition, earth materials should be removed to a minimum depth of three feet below proposed foundations and recompacted as controlled fill prior to foundation excavation. Conventional foundations bearing in newly placed controlled fill are recommended for foundation support.

Where the subterranean option is selected, the proposed structures may be supported by conventional foundations bearing in alluvium anticipated to be at the elevation of the subterranean garage level. The building floor slabs should be cast over competent undisturbed alluvium or certified recompacted fill. Excavation of the proposed subterranean level will require shoring



measures to provide a stable working area due to the proposed excavation depth and the proximity of adjacent surface streets and property lines.

Foundations for small outlying structures, such as property line walls which will not be tied-in to the proposed or existing structures, may be supported on conventional foundations bearing in undisturbed, alluvial soils.

The following statement is made in regard to Los Angeles County Code Sections 110 and 111: It is the opinion of the undersigned based on the findings of this investigation that provided the recommendations presented in this report are followed, the proposed development will be safe for its intended use against hazard from landsliding, settlement or slippage. The proposed development will have no adverse effect on the stability of the site of adjoining properties.

The validity of the conclusions and design recommendations presented herein is dependent upon review of the geotechnical aspects of the proposed construction by this firm. The subsurface conditions described herein have been projected from excavations on the site as indicated and should in no way be construed to reflect any variations which may occur between these excavations or which may result from changes in subsurface conditions. Any changes in the design, as outlined in this report, should be reviewed by this office. The recommendations contained herein should not be considered valid until reviewed and modified or reaffirmed subsequent to such review.

## **SEISMIC DESIGN CONSIDERATIONS**

### **2016 California Building Code Seismic Parameters**

Based on information derived from the subsurface investigation, the subject site is classified as Site Class D, which corresponds to a “Stiff Soil” Profile, according to Table 20.3-1 of ASCE 7-10. This information and the site coordinates were input into the USGS U.S. Seismic Design Maps tool (Version 3.1.0) to calculate the ground motions for the site.



<b>2016 CALIFORNIA BUILDING CODE SEISMIC PARAMETERS</b>	
Site Class	D
Mapped Spectral Acceleration at Short Periods ( $S_s$ )	2.049g
Site Coefficient ( $F_a$ )	1.0
Maximum Considered Earthquake Spectral Response for Short Periods ( $S_{MS}$ )	2.049g
Five-Percent Damped Design Spectral Response Acceleration at Short Periods ( $S_{DS}$ )	1.366g
Mapped Spectral Acceleration at One-Second Period ( $S_1$ )	0.691g
Site Coefficient ( $F_v$ )	1.5
Maximum Considered Earthquake Spectral Response for One-Second Period ( $S_{M1}$ )	1.036g
Five-Percent Damped Design Spectral Response Acceleration for One-Second Period ( $S_{D1}$ )	0.691g

**FILL SOILS**

The maximum depth of fill encountered during exploration was 5 feet. The existing fill soils are not suitable for the support of foundations, floor slabs or additional fill and should be removed and recompacted for support of the proposed structures. Should the subterranean option be selected, the fill materials will be removed and the proposed excavations.

**EXPANSIVE SOILS**

The onsite geologic materials are in the low expansion range. The Expansion Index was found to be 25 to 28 for representative bulk samples. Recommended reinforcing is provided in the “Foundation Design” and “Slabs on Grade” sections of this report.





## **WATER-SOLUBLE SULFATES**

The Portland cement portion of concrete is subject to attack when exposed to water-soluble sulfates. Usually the two most common sources of exposure are from soil and marine environments.

The sources of natural sulfate minerals in soils include the sulfates of calcium, magnesium, sodium, and potassium. When these minerals interact and dissolve in subsurface water, a sulfate concentration is created, which will react with exposed concrete. Over time sulfate attack will destroy improperly proportioned concrete well before the end of its intended service life.

The water-soluble sulfate content of the onsite geologic materials was tested by California Test 417. The water-soluble sulfate content was determined to be less than 0.1% percentage by weight for the soils tested. Based on American Concrete Institute (ACI) Standard 318, the sulfate exposure is considered to be negligible for geologic materials with less than 0.1% and Type I cement may be utilized for concrete foundations in contact with the site soils.

## **GRADING GUIDELINES**

### **Site Preparation**

- A thorough search should be made for possible underground utilities and/or structures. Any existing or abandoned utilities or structures located within the footprint of the proposed grading should be removed or relocated as appropriate.
- All vegetation, existing fill, and soft or disturbed geologic materials should be removed from the areas to receive controlled fill. All existing fill materials and any disturbed geologic materials resulting from grading operations shall be completely removed and properly recompacted prior to foundation excavation.
- Any vegetation or associated root system located within the footprint of the proposed structures should be removed during grading.



- Subsequent to the indicated removals, the exposed grade shall be scarified to a depth of six inches, moistened to optimum moisture content, and recompactd in excess of the minimum required comparative density.
- The excavated areas shall be observed by the geotechnical engineer prior to placing compacted fill.

### **Recommended Overexcavation**

The proposed building areas shall be excavated to a minimum depth of three feet below the bottom of all foundations. The excavation shall extend at least three feet beyond the edge of foundations or for a distance equal to the depth of fill below the foundations, whichever is greater. It is very important that the positions of the proposed structures are accurately located so that the limits of the graded area are accurate and the grading operation proceeds efficiently.

### **Compaction**

All fill should be mechanically compacted in layers not more than 8 inches thick. All fill shall be compacted to at least 90 percent of the maximum laboratory density for the materials used. The maximum density shall be determined by the laboratory operated by Geotechnologies, Inc. using the test method described in the most recent revision of ASTM D 1557.

Field observation and testing shall be performed by a representative of the geotechnical engineer during grading to assist the contractor in obtaining the required degree of compaction and the proper moisture content. Where compaction is less than required, additional compactive effort shall be made with adjustment of the moisture content, as necessary, until a minimum of 90 percent compaction is obtained.



### **Acceptable Materials**

The excavated onsite materials are considered satisfactory for reuse in the controlled fills as long as any debris and/or organic matter is removed.

Any imported materials shall be observed and tested by the representative of the geotechnical engineer prior to use in fill areas. Imported materials should contain sufficient fines so as to be relatively impermeable and result in a stable subgrade when compacted. Any required import materials should consist of geologic materials with an expansion index of less than 50. The water-soluble sulfate content of the import materials should be less than 0.1% percentage by weight.

Imported materials should be free from chemical or organic substances which could affect the proposed development. A competent professional should be retained in order to test imported materials and address environmental issues and organic substances which might affect the proposed development.

### **Utility Trench Backfill**

Utility trenches should be backfilled with compacted fill. The utility should be bedded with clean sands at least one foot over the crown. The remainder of the backfill may be onsite soil compacted to 90 percent of the laboratory maximum density. Utility trench backfill should be tested by representatives of this firm in accordance with the most recent revision of ASTM D-1557.

### **Shrinkage**

Shrinkage results when a volume of soil removed at one density is compacted to a higher density. A shrinkage factor between 5 and 15 percent should be anticipated when excavating and recompacting the existing fill and underlying native geologic materials on the site to an average comparative compaction of 92 percent.



### **Weather Related Grading Considerations**

When rain is forecast all fill that has been spread and awaits compaction shall be properly compacted prior to stopping work for the day or prior to stopping due to inclement weather. These fills, once compacted, shall have the surface sloped to drain to an area where water can be removed.

Temporary drainage devices should be installed to collect and transfer excess water to the street in non-erosive drainage devices. Drainage should not be allowed to pond anywhere on the site, and especially not against any foundation or retaining wall. Drainage should not be allowed to flow uncontrolled over any descending slope.

Work may start again, after a period of rainfall, once the site has been reviewed by a representative of this office. Any soils saturated by the rain shall be removed and aerated so that the moisture content will fall within three percent of the optimum moisture content.

Surface materials previously compacted before the rain shall be scarified, brought to the proper moisture content and recompacted prior to placing additional fill, if considered necessary by a representative of this firm.

### **Abandoned Seepage Pits**

No abandoned seepage pits were encountered during exploration and none are known to exist on the site. However, should such a structure be encountered during grading, options to permanently abandon seepage pits include complete removal and backfill of the excavation with compacted fill, or drilling out the loose materials and backfilling to within a few feet of grade with slurry, followed by a compacted fill cap.

If the subsurface structures are to be removed by grading, the entire structure should be demolished. The resulting void may be refilled with compacted soil. Concrete and brick generated



during the seepage pit removal may be reused in the fill as long as all fragments are less than 6 inches in longest dimension and the debris comprises less than 15 percent of the fill by volume. All grading should comply with the recommendations of this report.

Where the seepage pit structure is to be left in place, the seepage pits should be cleaned of all soil and debris. This may be accomplished by drilling. The pits should be filled with minimum 1-1/2 sack concrete slurry to within 5 feet of the bottom of the proposed foundations. In order to provide a more uniform foundation condition, the remainder of the void should be filled with controlled fill.

### **Geotechnical Observations and Testing During Grading**

Geotechnical observations and testing during grading are considered to be a continuation of the geotechnical investigation. It is critical that the geotechnical aspects of the project be reviewed by representatives of Geotechnologies, Inc. during the construction process. Compliance with the design concepts, specifications or recommendations during construction requires review by this firm during the course of construction. Any fill which is placed should be observed, tested, and verified if used for engineered purposes. Please advise this office at least twenty-four hours prior to any required site visit.

### **LEED Considerations**

The Leadership in Energy and Environmental Design (LEED) Green Building Rating System encourages adoption of sustainable green building and development practices. Credit for LEED Certification can be assigned for reuse of construction waste and diversion of materials from landfills in new construction.



In an effort to provide the design team with a viable option in this regard, demolition debris could be crushed onsite in order to use it in the ongoing grading operations. The environmental ramifications of this option, if any, should be considered by the team.

The demolition debris should be limited to concrete, asphalt and other non-deleterious materials. All deleterious materials should be removed including, but not limited to, paper, garbage, ceramic materials and wood.

For structural fill applications, the materials should be crushed to 2 inches in maximum dimension or smaller. The crushed materials should be thoroughly blended and mixed with onsite soils prior to placement as compacted fill. The amount of crushed material should not exceed 20 percent. The blended and mixed materials should be tested by this office prior to placement to insure it is suitable for compaction purposes. The blended and mixed materials should be tested by Geotechnologies, Inc. during placement to insure that it has been compacted in a suitable manner.

### **FOUNDATION DESIGN**

The proposed structure should be supported on newly placed controlled fill. For the subterranean option, the proposed structures may be supported by conventional foundations bearing in competent undisturbed alluvial soils. It is anticipated that excavation for the proposed subterranean parking level will remove the existing fill materials and expose competent undisturbed alluvium at the subgrade.

Continuous foundations may be designed for a bearing capacity of 2,500 pounds per square foot, and should be a minimum of 12 inches in width, 18 inches in depth below the lowest adjacent grade and 18 inches into the recommended bearing material.





Column foundations may be designed for a bearing capacity of 3,000 pounds per square foot, and should be a minimum of 24 inches in width, 18 inches in depth below the lowest adjacent grade and 18 inches into the recommended bearing material.

The bearing capacity increase for each additional foot of width is 150 pounds per square foot. The bearing capacity increase for each additional foot of depth is 500 pounds per square foot. The maximum recommended bearing capacity is 5,000 pounds per square foot.

The bearing capacities indicated above are for the total of dead and frequently applied live loads, and may be increased by one third for short duration loading, which includes the effects of wind or seismic forces.

Since the recommended bearing value is a net value, the weight of concrete in the foundations may be taken as 50 pounds per cubic foot and the weight of the soil backfill may be neglected when determining the downward load on the foundations.

### **Miscellaneous Foundations**

Conventional foundations for structures such as privacy walls or trash enclosures which will not be rigidly connected to the proposed structures may be deepened through any existing fill to bear in undisturbed alluvial soils. Continuous footings may be designed for a bearing capacity of 1,500 pounds per square foot, and should be a minimum of 12 inches in width, 18 inches in depth below the lowest adjacent grade and 18 inches into the recommended bearing material. No bearing capacity increases are recommended.

### **Foundation Reinforcement**

All continuous foundations should be reinforced with a minimum of four #4 steel bars. Two should be placed near the top of the foundation, and two should be placed near the bottom.



### **Lateral Design**

Resistance to lateral loading may be provided by friction acting at the base of foundations and by passive earth pressure. An allowable coefficient of friction of 0.35 may be used with the dead load forces.

Passive geologic pressure for the sides of foundations poured against undisturbed alluvium soil may be computed as an equivalent fluid having a density of 300 pounds per cubic foot with a maximum earth pressure of 3,000 pounds per square foot.

When combining passive and friction for lateral resistance, the passive component should be reduced by one third. A one-third increase in the passive value may be used for wind or seismic loads.

### **Foundation Settlement**

Settlement of the foundation system is expected to occur on initial application of loading. The maximum settlement is expected to be 1-inch and occur below the heaviest loaded columns. Differential settlement is not expected to exceed ½ -inch.

### **Foundation Observations**

It is critical that all foundation excavations are observed by a representative of this firm to verify penetration into the recommended bearing materials. The observation should be performed prior to the placement of reinforcement. Foundations should be deepened to extend into satisfactory geologic materials, if necessary.

Foundation excavations should be cleaned of all loose soils prior to placing steel and concrete. Any required foundation backfill should be mechanically compacted, flooding is not permitted.



## **RETAINING WALL DESIGN**

### **Cantilever Retaining Walls**

Retaining walls supporting a level backslope may be designed utilizing a triangular distribution of pressure. Cantilever retaining walls may be designed for 32 pounds per cubic foot for walls retaining up to 10 feet of earth.

For this equivalent fluid pressure to be valid, walls which are to be restrained at the top should be backfilled prior to the upper connection being made. Additional active pressure should be added for a surcharge condition due to expansive soil, vehicular traffic or adjacent structures.

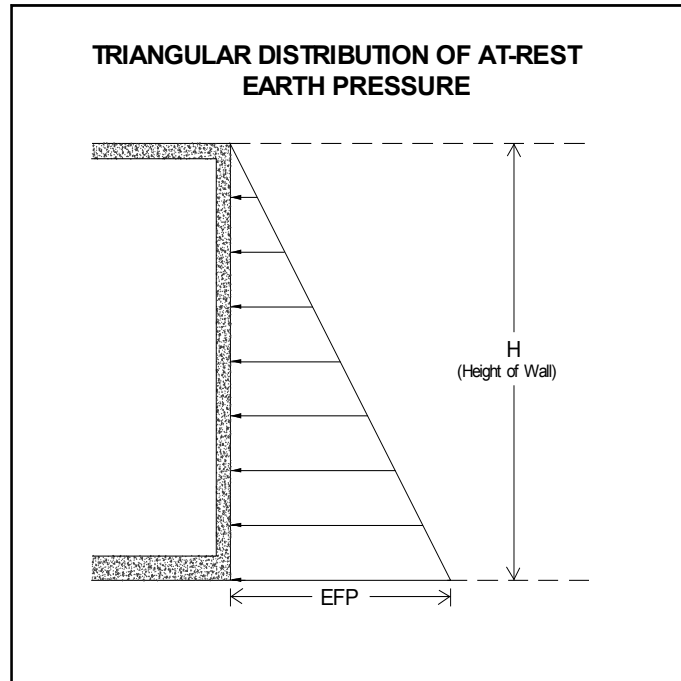
In addition to the recommended earth pressure, the upper ten feet of the retaining wall adjacent to streets, driveways or parking areas should be designed to resist a uniform lateral pressure of 100 pounds per square foot, acting as a result of an assumed 300 pounds per square foot surcharge behind the walls due to normal street traffic. If the traffic is kept back at least ten feet from the retaining walls, the traffic surcharge may be neglected.

The lateral earth pressures recommended above for retaining walls assume that a permanent drainage system will be installed so that external water pressure will not be developed against the walls. Also, where necessary, the retaining walls should be designed to accommodate any surcharge pressures that may be imposed by any adjacent buildings.

### **Restrained Drained Retaining Walls**

Restrained retaining walls may be designed to resist a triangular pressure distribution of at-rest earth pressure as indicated in the diagram below. The at-rest pressure for design purposes would be 67 pounds per cubic foot. Additional earth pressure should be added for a surcharge condition due to sloping ground, vehicular traffic or adjacent structures.





In addition to the recommended earth pressure, the upper ten feet of the retaining wall adjacent to streets, driveways or parking areas should be designed to resist a uniform lateral pressure of 100 pounds per square foot, acting as a result of an assumed 300 pounds per square foot surcharge behind the walls due to normal street traffic. If the traffic is kept back at least ten feet from the retaining walls, the traffic surcharge may be neglected.

The lateral earth pressures recommended above for retaining walls assume that a permanent drainage system will be installed so that external water pressure will not be developed against the walls. Also, where necessary, the retaining walls should be designed to accommodate any surcharge pressures that may be imposed by existing buildings on the adjacent property.



### **Retaining Wall Drainage**

Retaining walls should be provided with a subdrain covered with a minimum of 12 inches of gravel, and a compacted fill blanket or other seal at the surface. The onsite geologic materials are acceptable for use as retaining wall backfill as long as they are compacted to a minimum of 90 percent of the maximum density as determined by the most recent revision of ASTM D 1557.

Certain types of subdrain pipe are not acceptable to the various municipal agencies, it is recommended that prior to purchasing subdrainage pipe, the type and brand is cleared with the proper municipal agencies. Subdrainage pipes should outlet to an acceptable location.

Where retaining walls are to be constructed adjacent to property lines there is usually not enough space for emplacement of a standard pipe and gravel drainage system. Under these circumstances, the use of a flat drainage product is acceptable.

Some municipalities do not allow the use of flat-drainage products. The use of such a product should be researched with the building official. As an alternative, omission of one-half of a block at the back of the wall on eight foot centers is an acceptable method of draining the walls. The resulting void should be filled with gravel. A collector is placed within the gravel which directs collected waters through the wall to a sump or standard pipe and gravel system constructed under the slab. This method should be approved by the retaining wall designer prior to implementation.

Where shoring will not allow the installation of a standard subdrainage system outside the wall rock pockets may be utilized. The rock pockets with should drain through the wall. The pockets should be a minimum of 12 inches in length, width and depth. The pocket should be filled with gravel. The rock pockets should be no more than 8 feet on center.



### **Sump Pump Design**

The purpose of the recommended retaining wall backdrainage system is to relieve hydrostatic pressure. Groundwater was not encountered during exploration to a depth of 50 feet below grade and the historically highest groundwater is estimated at a depth of 47 feet below the ground surface. The water anticipated from the wall drainage system will be from rainfall, irrigation and leaky pipes. A pump capacity of 5 gallons per minute is considered sufficient.

### **Dynamic (Seismic) Earth Pressure**

Retaining walls exceeding 6 feet in height shall be designed to resist the additional earth pressure caused by seismic ground shaking. A triangular pressure distribution should be utilized for the additional seismic loads, with an equivalent fluid pressure of 21.1 pounds per cubic foot. When using the load combination equations from the building code, the seismic earth pressure should be combined with the lateral active earth pressure for analyses of restrained basement walls under seismic loading condition.

### **Waterproofing**

Moisture affecting retaining walls is one of the most common post construction complaints. Poorly applied or omitted waterproofing can lead to efflorescence or standing water inside the building. Efflorescence is a process in which a powdery substance is produced on the surface of the concrete by the evaporation of water. The white powder usually consists of soluble salts such as gypsum, calcite, or common salt. Efflorescence is common to retaining walls and does not affect their strength or integrity.

It is recommended that retaining walls be waterproofed. Waterproofing design and inspection of its installation is not the responsibility of the geotechnical engineer. A qualified waterproofing





consultant should be retained in order to recommend a product or method which would provide protection to below grade walls.

### **Retaining Wall Backfill**

Any required backfill should be mechanically compacted in layers not more than 8 inches thick, to at least 90 percent of the maximum density obtainable by the most recent revision of ASTM D 1557 method of compaction. Flooding should not be permitted. Compaction within 5 feet, measured horizontally, behind a retaining structure should be achieved by use of light weight, hand operated compaction equipment.

Proper compaction of the backfill will be necessary to reduce settlement of overlying walks and paving. Some settlement of required backfill should be anticipated, and any utilities supported therein should be designed to accept differential settlement, particularly at the points of entry to the structure.

### **TEMPORARY EXCAVATIONS**

Excavations on the order of 3 to 5 feet will be required for the recommended removal and recompaction. Excavations on the order of 12 feet in vertical height may be required should the the subterranean garage option be selected. The excavations are expected to expose dense native soils, which are suitable for vertical excavations up to 5 feet where not surcharged by adjacent traffic or structures.

Where sufficient space is available, temporary unsurcharged embankments could be cut at a uniform 1:1 (h:v) slope gradient in their entirety. A uniform sloped excavation does not have a vertical component. Sloped excavations with vertical cuts at the toe of the slope are not recommended.



Where sloped embankments are utilized, the tops of the slopes should be barricaded to prevent vehicles and storage loads near the top of slope within a horizontal distance equal to the depth of the excavation. If the temporary construction embankments are to be maintained during the rainy season, berms are strongly recommended along the tops of the slopes to prevent runoff water from entering the excavation and eroding the slope faces. Water should not be allowed to pond on top of the excavation nor to flow towards it.

### **Excavation Observations**

It is critical that the soils exposed in the cut slopes are observed by a representative of Geotechnologies, Inc. during excavation so that modifications of the slopes can be made if variations in the geologic material conditions occur. Many building officials require that temporary excavations should be made during the continuous observations of the geotechnical engineer. All excavations should be stabilized within 30 days of initial excavation.

### **SHORING DESIGN**

Shoring will be required should the subterranean option be selected. The following information on the design and installation of the shoring is as complete as possible at this time. It is suggested that Geotechnologies, Inc. review the final shoring plans and specifications prior to bidding or negotiating with a shoring contractor.

One method of shoring would consist of steel soldier piles, placed in drilled holes and backfilled with concrete. Another method of shoring consists of steel soldier piles vibrated into place. Either of these methods is acceptable to Geotechnologies, Inc. The soldier piles may be designed as cantilevers or laterally braced.



### **Soldier Piles Drilled and Poured**

Drilled cast-in-place soldier piles should be placed no closer than 2 diameters on center. The minimum diameter of the piles is 18 inches. Structural concrete should be used for the soldier piles below the excavation; lean-mix concrete may be employed above that level. As an alternative, lean-mix concrete may be used throughout the pile where the reinforcing consists of a wideflange section. The slurry must be of sufficient strength to impart the lateral bearing pressure developed by the wideflange section to the geologic materials. For design purposes, an allowable passive value for the geologic materials below the bottom plane of excavation may be assumed to be 500 pounds per square foot per foot. To develop the full lateral value, provisions should be implemented to assure firm contact between the soldier piles and the undisturbed geologic materials.

Casing may be required should caving be experienced in the granular geologic materials. If casing is used, extreme care should be employed so that the pile is not pulled apart as the casing is withdrawn. At no time should the distance between the surface of the concrete and the bottom of the casing be less than 5 feet.

The frictional resistance between the soldier piles and retained geologic material may be used to resist the vertical component of the anchor load. The coefficient of friction may be taken as 0.35 based on uniform contact between the steel beam and lean-mix concrete and retained earth. The portion of soldier piles below the plane of excavation may also be employed to resist the downward loads. The downward capacity may be determined using a frictional resistance of 250 pounds per square foot. The minimum depth of embedment for shoring piles is 5 feet below the bottom of the footing excavation or 7 feet below the bottom of excavated plane whichever is deeper.



### **Soldier Piles – Vibrated**

The vibration method of shoring pile installation is acceptable to this firm from a geotechnical standpoint provided the recommendations presented herein are implemented.

When using the vibration method of installing the soldier beams, the minimum embedment depth shall be 10 feet below the lowest excavated plane. Predrilling may be necessary by the shoring contractor in order to vibrate and install the shoring beams to the design depths.

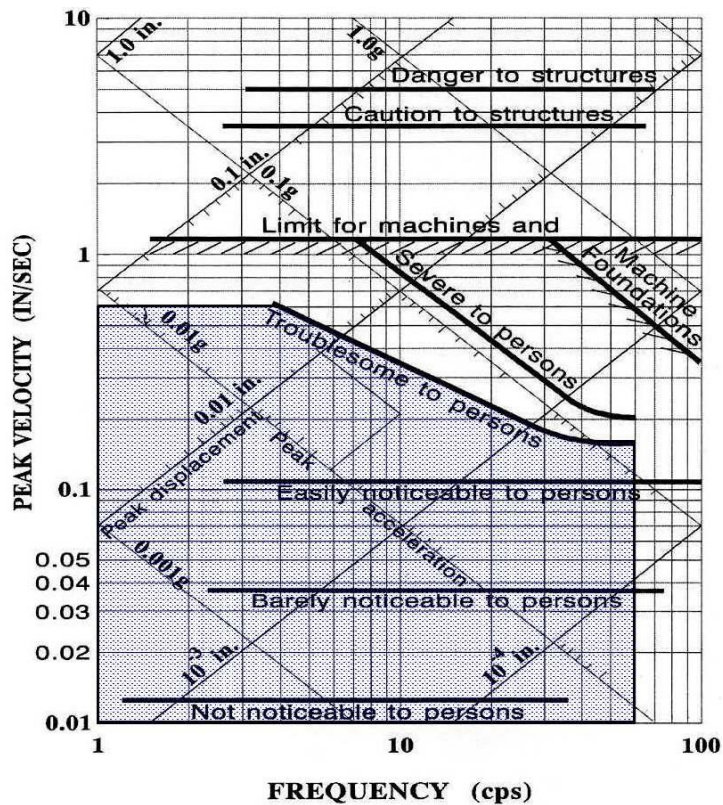
If predrilling is required, it is recommended that the diameter of the predrilled holes should not exceed 75 percent of the width of the web of the I-beam. The depth of the predrilled holes should not exceed the planned excavation depth. In addition, when predrilling, the auger shall be backspun out of the pilot holes, leaving the soils in place. All shoring (predrilling, installation of shoring piles, tieback installation and testing, and lagging) shall be performed under the continuous inspections by a deputy grading inspector of this firm.

Monitoring of the shoring system shall be conducted on a periodic basis until the subterranean structure is completed. The monitoring should consist of periodic surveying of the lateral and vertical locations of the tops of all soldier piles.

The allowable level of vibration that results from the installation of the piles should not exceed a threshold where occupants of the nearby structures are disturbed, despite higher vibration tolerances that a building may endure without deformation. There is a relationship between particle velocity and vibration frequency that will occur due to the installation. A range of tolerable particle peak velocity and frequency of vibration is attached an “Allowable Amplitude of Vertical Vibrations”. The shaded area on the graph is considered within acceptable limits to avoid damage to nearby structures. The acceptable limits should be measured at the neighboring structures.



The vibrations should be monitored with a seismograph during pile installation to detect the magnitude of vibration and oscillation experienced by the adjacent structure. The results should be recorded and provided to the owner. If, during installation, the vibrations exceed the range shown on the graph below, the shoring contractor should modify the installation procedure to reduce the values to the acceptable range.



Given Velocity = 0.2 inch/sec.  
 Frequency = 10 cps  
 Then from Graph, Displacement = 0.003 inches  
 Acceleration = 0.03g  
 Motion is easy noticeable or troublesome to persons

NOTE: Shaded area considered below threshold for structure damage

REFERENCE: Department of Defense, 1997, Soil Dynamics and Special Design Aspects, MIL-HDBK-1007/8



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**Lagging**

Soldier piles and anchors should be designed for the full anticipated pressures. Due to arching in the geologic materials, the pressure on the lagging will be less. It is recommended that the lagging should be designed for the full design pressure but be limited to a maximum of 400 pounds per square foot. It is recommended that a representative of this firm observe the installation of lagging to insure uniform support of the excavated embankment.

**Lateral Pressures**

Cantilevered shoring supporting a level backslope may be designed utilizing a triangular distribution of pressure as indicated in the following table:

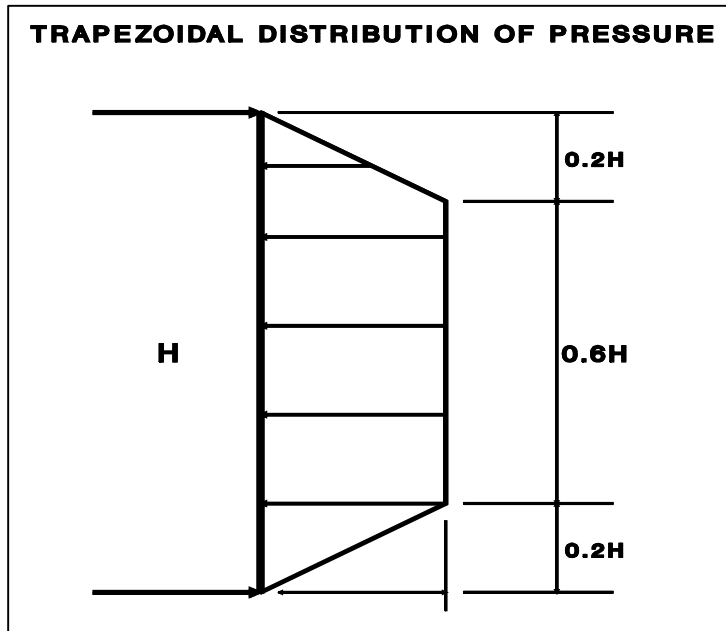
<b>HEIGHT OF SHORING “H” (feet)</b>	<b>EQUIVALENT FLUID PRESSURE (pounds per cubic foot)</b>
Up to 12	27

Where a combination of sloped embankment and shoring is utilized, the pressure will be greater and must be determined for each combination. Additional active pressure should be applied where the shoring will be surcharged by adjacent traffic or structures. Where a combination of sloped embankment and shoring is utilized, the pressure will be greater and must be determined for each combination.

A trapezoidal distribution of lateral earth pressure would be appropriate where shoring is to be restrained at the top by bracing or tie backs, with the trapezoidal distribution as shown in the diagram below.







Restrained shoring supporting a level backslope may be designed utilizing a trapezoidal distribution of pressure as indicated in the following table:

HEIGHT OF SHORING "H" (feet)	DESIGN SHORING FOR (Where H is the height of the wall)
Up to 12	18H

**Raker Brace Foundations**

An allowable bearing pressure of 3,000 pounds per square foot may be used for the design a raker foundations. This bearing pressure is based on a raker foundation a minimum of 4 feet in width and length as well as 4 feet in depth. The base of the raker foundations should be horizontal. Care should be employed in the positioning of raker foundations so that they do not interfere with the foundations for the proposed structure.



### **Deflection**

It is difficult to accurately predict the amount of deflection of a shored embankment. It should be realized that some deflection will occur. It is estimated that the deflection could be on the order of ½ inch at the top of the shored embankment. If greater deflection occurs during construction, additional bracing may be necessary to minimize settlement of adjacent buildings and utilities in adjacent street and alleys. If desired to reduce the deflection, a greater active pressure could be used in the shoring design.

### **Monitoring**

Because of the depth of the excavation, some means of monitoring the performance of the shoring system is suggested. The monitoring should consist of periodic surveying of the lateral and vertical locations of the tops of all soldier piles and the lateral movement along the entire lengths of selected soldier piles. Also, some means of periodically checking the load on selected anchors will be necessary, where applicable.

Some movement of the shored embankments should be anticipated as a result of the relatively deep excavation. It is recommended that photographs of the existing buildings on the adjacent properties be made during construction to record any movements for use in the event of a dispute.

### **Shoring Observations**

It is critical that the installation of shoring is observed by a representative of Geotechnologies, Inc. Many building officials require that shoring installation should be performed during continuous observation of a representative of the geotechnical engineer. The observations insure that the recommendations of the geotechnical report are implemented and so that modifications of the recommendations can be made if variations in the geologic material or groundwater conditions



warrant. The observations will allow for a report to be prepared on the installation of shoring for the use of the local building official, where necessary.

## **SLABS ON GRADE**

### **Concrete Slabs-on Grade**

Concrete floor slabs should be a minimum of 4 inches in thickness. Slabs-on-grade should be cast over undisturbed alluvial soil or properly controlled fill materials. Any geologic materials loosened or over-excavated should be wasted from the site or properly compacted to 90 percent of the maximum dry density.

Outdoor concrete flatwork should be a minimum of 4 inches in thickness. Outdoor concrete flatwork should be cast over undisturbed alluvial soils or properly compacted fill materials. Any geologic materials loosened or over-excavated should be wasted from the site or properly compacted to 90 percent of the maximum dry density.

### **Design of Slabs That Receive Moisture-Sensitive Floor Coverings**

Geotechnologies, Inc. does not practice in the field of moisture vapor transmission evaluation and mitigation. Therefore it is recommended that a qualified consultant be engaged to evaluate the general and specific moisture vapor transmission paths and any impact on the proposed construction. The qualified consultant should provide recommendations for mitigation of potential adverse impacts of moisture vapor transmission on various components of the structure.

Where dampness would be objectionable, it is recommended that the floor slabs should be waterproofed. A qualified waterproofing consultant should be retained in order to recommend a product or method which would provide protection for concrete slabs-on-grade.



All concrete slabs-on-grade should be supported on vapor retarder. The design of the slab and the installation of the vapor retarder should comply with the most recent revisions of ASTM E 1643 and ASTM E 1745. Where a vapor retarder is used, a low-slump concrete should be used to minimize possible curling of the slabs. The barrier can be covered with a layer of trimmable, compactible, granular fill, where it is thought to be beneficial. See ACI 302.2R-32, Chapter 7 for information on the placement of vapor retarders and the use of a fill layer.

### **Concrete Crack Control**

The recommendations presented in this report are intended to reduce the potential for cracking of concrete slabs-on-grade due to settlement. However, even where these recommendations have been implemented, foundations, stucco walls and concrete slabs-on-grade may display some cracking due to minor soil movement and/or concrete shrinkage. The occurrence of concrete cracking may be reduced and/or controlled by limiting the slump of the concrete used, proper concrete placement and curing, and by placement of crack control joints at reasonable intervals, in particular, where re-entrant slab corners occur.

Building slabs should be placed natural alluvial soils or certified recompacted fill. For standard control of concrete cracking, a maximum crack control joint spacing of 15 feet should not be exceeded. Lesser spacing's would provide greater crack control. Joints at curves and angle points are recommended. The crack control joints should be installed as soon as practical following concrete placement. Crack control joints should extend a minimum depth of one-fourth the slab thickness. Construction joints should be designed by a structural engineer.

Complete removal of the existing fill soils beneath outdoor flatwork such as walkways or patio areas, is not required, however, due to the rigid nature of concrete, some cracking, a shorter design life and increased maintenance costs should be anticipated. In order to provide uniform support beneath the flatwork it is recommended that a minimum of 12 inches of the exposed subgrade beneath the flatwork be scarified and recompacted to 90 percent relative compaction.



**Slab Reinforcing**

Building slabs should be reinforced with a minimum of #3 bars at 24-inch centers each way. Outdoor flatwork should be reinforced with a minimum of #3 steel bars on 24-inch centers each way.

**PAVEMENTS**

Prior to placing paving, the existing grade should be scarified to a depth of 12 inches, moistened as required to obtain optimum moisture content, and recompact to 90 percent of the maximum density as determined by the most recent revision of ASTM D 1557. The client should be aware that removal of all existing fill in the area of new paving is not required, however, pavement constructed in this manner will most likely have a shorter design life and increased maintenance costs. The following pavement sections are recommended based on an assumed R-Value of 40 for traffic indexes of 4, 6, and 8:

<b>Service</b>	<b>Asphalt Pavement Thickness Inches</b>	<b>Base Course Inches</b>
Passenger Cars (TI=4)	3	4
Moderate Truck (TI=6)	4	6
Heavy Trucks (TI=8)	5	9

The paving sections have been developed in general accordance with the California Department of Transportation, Highway Design Manual. Aggregate base should be compacted to a minimum of 95 percent of the most recent revision of ASTM D 1557 laboratory maximum dry density. Base materials should conform with Sections 200-2.2 or 200-2.4 of the “Standard Specifications for Public Works Construction”, (Green Book), latest edition.



Concrete paving may be used on the project. Based on the highway design manual for Traffic Index of 6, concrete paving should be 6 inches of concrete over 4 inches of compacted base. A subgrade modulus of 150 pounds per cubic inch may be assumed for design of concrete paving.

For standard control of concrete cracking, a maximum crack control joint spacing of 15 feet should not be exceeded. Lesser spacings would provide greater crack control. Joints at curves and angle points are recommended. The crack control joints should be installed as soon as practical following concrete placement. Crack control joints should extend a minimum depth of one-fourth the slab thickness. Construction joints should be designed by a structural engineer.

The occurrence of concrete cracking may be reduced and/or controlled by limiting the slump of the concrete used, proper concrete placement and curing, and by placement of crack control joints at reasonable intervals, in particular, where re-entrant slab corners occur.

The performance of pavement is highly dependent upon providing positive surface drainage away from the edges. Ponding of water on or adjacent to pavement can result in saturation of the subgrade materials and subsequent pavement distress. If planter islands are planned, the perimeter curb should extend a minimum of 12 inches below the bottom of the aggregate base.

The management of pavement wear primarily is focused on the distress caused by vertical loads. The reduction of vertical loading from large vehicles is assisted by increasing the number of axles. Multi-axle groups reduce the peak vertical loading and, when closely spaced, reduce the magnitude of the strain cycles to which the pavement is subjected. However, where tight low-speed turns are executed, non-steering axle groups lead to transverse shear forces (scuffing) at the pavement-tire interface.

With asphaltic concrete pavements, tensile shear stresses from tires can cause surface cracking and raveling, thus, the increased use of non-steering axle groups results in increased pavement wear in the vicinity of intersections and turnarounds where tight low speed turns are executed.





When designing intersections and turnarounds, the turn radius should be as large as possible. This will lead to reduced “scuffing” forces. Where tight radius turns are unavoidable, the pavement surface design should take into account the high level of “scuffing” forces that will occur and thickened pavement and subgrade and base course keyways should be considered to assist in the reduction of lateral deflection.

### **SITE DRAINAGE**

Proper surface drainage is critical to the future performance of the project. Saturation of a soil can cause it to lose internal shear strength and increase its compressibility, resulting in a change in the designed engineering properties. Proper site drainage should be maintained at all times.

All site drainage, with the exception of any required to be disposed of onsite by stormwater regulations, should be collected and transferred to the street in non-erosive drainage devices. The proposed structures should be provided with roof drainage. Discharge from downspouts, roof drains and scuppers should not be permitted on unprotected soils within five feet of the building perimeter. Drainage should not be allowed to pond anywhere on the site, and especially not against any foundation or retaining wall. Drainage should not be allowed to flow uncontrolled over any descending slope. Planters which are located within a distance equal to the depth of a retaining wall should be sealed to prevent moisture adversely affecting the wall. Planters which are located within five feet of a foundation should be sealed to prevent moisture affecting the earth materials supporting the foundation.

### **DESIGN REVIEW**

Engineering of the proposed project should not begin until approval of the geotechnical report by the Building Official is obtained in writing. Significant changes in the geotechnical recommendations may result during the building department review process.



It is recommended that the geotechnical aspects of the project be reviewed by this firm during the design process. This review provides assistance to the design team by providing specific recommendations for particular cases, as well as review of the proposed construction to evaluate whether the intent of the recommendations presented herein are satisfied.

### **CONSTRUCTION MONITORING**

Geotechnical observations and testing during construction are considered to be a continuation of the geotechnical investigation. It is critical that this firm review the geotechnical aspects of the project during the construction process. Compliance with the design concepts, specifications or recommendations during construction requires review by this firm during the course of construction. All foundations should be observed by a representative of this firm prior to placing concrete or steel. Any fill which is placed should be observed, tested, and verified if used for engineered purposes. Please advise Geotechnologies, Inc. at least twenty-four hours prior to any required site visit.

If conditions encountered during construction appear to differ from those disclosed herein, notify Geotechnologies, Inc. immediately so the need for modifications may be considered in a timely manner.

It is the responsibility of the contractor to ensure that all excavations and trenches are properly sloped or shored. All temporary excavations should be cut and maintained in accordance with applicable OSHA rules and regulations.

### **SOIL CORROSION POTENTIAL**

The results of soil corrosion potential testing performed by HDR, Inc. indicates that the electrical resistivity of the soils was in the moderately corrosive to corrosive categories. The soil pH value of the sample was 7.6 indicating mildly alkaline conditions. Nitrate was detected in low



concentration. Tests were not conducted for sulfide and oxidation-reduction potential because the sample did not exhibit characteristics typically associated with anaerobic conditions.

In summary, the soils are classified as moderately corrosive to ferrous metals. Detailed results, discussion of results and recommended mitigating measures are provided within the report by HDR, Inc. presented herein. Any questions regarding the results of the soil corrosion report should be addressed to HDR, Inc.

### **EXCAVATION CHARACTERISTICS**

The exploration performed for this investigation is limited to the geotechnical excavations described. Direct exploration of the entire site would not be economically feasible. The owner, design team and contractor must understand that differing excavation and drilling conditions may be encountered based on boulders, gravel, oversize materials, groundwater and many other conditions. Fill materials, especially when they were placed without benefit of modern grading codes, regularly contain materials which could impede efficient grading and drilling. The contractor should be familiar with the site and the geologic materials in the vicinity.

### **CLOSURE AND LIMITATIONS**

The purpose of this report is to aid in the design and completion of the described project. Implementation of the advice presented in this report is intended to reduce certain risks associated with construction projects. The professional opinions and geotechnical advice contained in this report are sought because of special skill in engineering and geology and were prepared in accordance with generally accepted geotechnical engineering practice. Geotechnologies, Inc. has a duty to exercise the ordinary skill and competence of members of the engineering profession. Those who hire Geotechnologies, Inc. are not justified in expecting infallibility, but can expect reasonable professional care and competence.



The scope of the geotechnical services provided did not include any environmental site assessment for the presence or absence of organic substances, hazardous/toxic materials in the soil, surface water, groundwater, or atmosphere, or the presence of wetlands.

Proper compaction is necessary to reduce settlement of overlying improvements. Some settlement of compacted fill should be anticipated. Any utilities supported therein should be designed to accept differential settlement.

## **GEOTECHNICAL TESTING**

### **Classification and Sampling**

The soil is continuously logged by a representative of this firm and classified by visual examination in accordance with the Unified Soil Classification system. The field classification is verified in the laboratory, also in accordance with the Unified Soil Classification System. Laboratory classification may include visual examination, Atterberg Limit Tests and grain size distribution. The final classification is shown on the excavation logs.

Samples of the geologic materials encountered in the exploratory excavations were collected and transported to the laboratory. Undisturbed samples of soil are obtained at frequent intervals. Unless noted on the excavation logs as an SPT sample, samples acquired while utilizing a hollow-stem auger drill rig are obtained by driving a thin-walled, California Modified Sampler with successive 30-inch drops of a 140-pound hammer. Samples from bucket-auger drilling are obtained utilizing a California Modified Sampler with successive 12-inch drops of a kelly bar, whose weight is noted on the excavation logs. The soil is retained in brass rings of 2.50 inches outside diameter and 1.00 inch in height. The central portion of the samples are stored in close fitting, waterproof containers for transportation to the laboratory. Samples noted on the excavation logs as SPT samples are obtained in accordance with the most recent revision of ASTM D 1586. Samples are retained for 30 days after the date of the geotechnical report.



### **Moisture and Density Relationships**

The field moisture content and dry unit weight are determined for each of the undisturbed soil samples, and the moisture content is determined for SPT samples by the most recent revision of ASTM D 4959 or ASTM D 4643. This information is useful in providing a gross picture of the soil consistency between exploration locations and any local variations. The dry unit weight is determined in pounds per cubic foot and shown on the "Excavation Logs", A-Plates. The field moisture content is determined as a percentage of the dry unit weight.

### **Direct Shear Testing**

Shear tests are performed by the most recent revision of ASTM D 3080 with a strain controlled, direct shear machine manufactured by Soil Test, Inc. or a Direct Shear Apparatus manufactured by GeoMatic, Inc. Each sample is sheared under varying confining pressures in order to determine the Mohr-Coulomb shear strength parameters of the cohesion intercept and the angle of internal friction. Samples are generally tested in an artificially saturated condition. Depending upon the sample location and future site conditions, samples may be tested at field moisture content. The results are plotted on the "Shear Test Diagram," B-Plates.

The most recent revision of ASTM 3080 limits the particle size to 10 percent of the diameter of the direct shear test specimen. The sheared sample is inspected by the laboratory technician running the test. The inspection is performed by splitting the sample along the sheared plane and observing the soils exposed on both sides. Where oversize particles are observed in the shear plane, the results are discarded and the test run again with a fresh sample.

### **Consolidation Testing**

Settlement predictions of the soil's behavior under load are made on the basis of the consolidation tests using the most recent revision of ASTM D 2435. The consolidation apparatus is designed to



receive a single one-inch high ring. Loads are applied in several increments in a geometric progression, and the resulting deformations are recorded at selected time intervals. Porous stones are placed in contact with the top and bottom of each specimen to permit addition and release of pore fluid. Samples are generally tested at increased moisture content to determine the effects of water on the bearing soil. The normal pressure at which the water is added is noted on the drawing. Results are plotted on the "Consolidation Test," C-Plates.

### **Expansion Index Testing**

The expansion tests performed on the remolded samples are in accordance with the Expansion Index testing procedures, as described in the most recent revision of ASTM D4829. The soil sample is compacted into a metal ring at a saturation degree of 50 percent. The ring sample is then placed in a consolidometer, under a vertical confining pressure of 1 lbf/square inch and inundated with distilled water. The deformation of the specimen is recorded for a period of 24 hour or until the rate of deformation becomes less than 0.0002 inches/hour, whichever occurs first. The expansion index, EI, is determined by dividing the difference between final and initial height of the ring sample by the initial height, and multiplied by 1,000. Results are presented in Plate D of this report.

### **Laboratory Compaction Characteristics**

The maximum dry unit weight and optimum moisture content of a soil are determined by use of the most recent revision of ASTM D 1557. A soil at a selected moisture content is placed in five layers into as mold of given dimensions, with each layer compacted by 25 blows of a 10 pound hammer dropped from a distance of 18 inches subjecting the soil to a total compactive effort of about 56,000 pounds per cubic foot. The resulting dry unit weight is determined. The procedure is repeated for a sufficient number of moisture contents to establish a relationship between the dry unit weight and the water content of the soil. The data when plotted represent a curvilinear relationship known as the compaction curve. The values of optimum moisture content and





modified maximum dry unit weight are determined from the compaction curve. Results are presented in Plate D of this report.



## REFERENCES

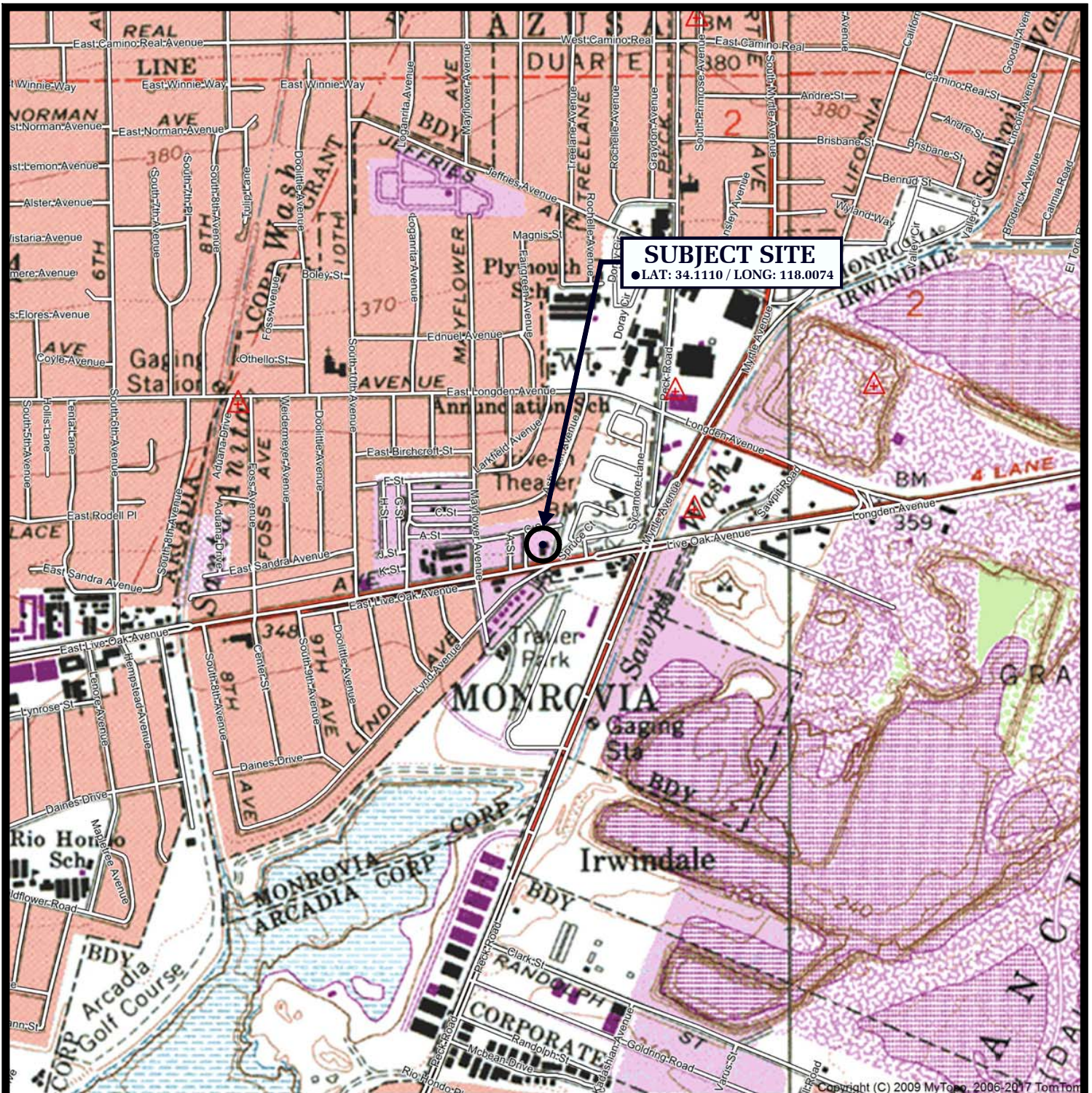
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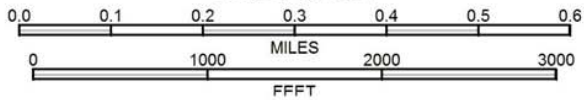
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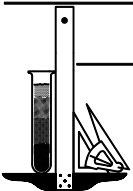
**SUBJECT SITE**  
 ● LAT: 34.1110 / LONG: 118.0074

SCALE 1:12000



REFERENCE: U.S.G.S. TOPOGRAPHIC MAPS, 7.5 MINUTE SERIES,  
 EL MONTE, CA QUADRANGLE

## VICINITY MAP

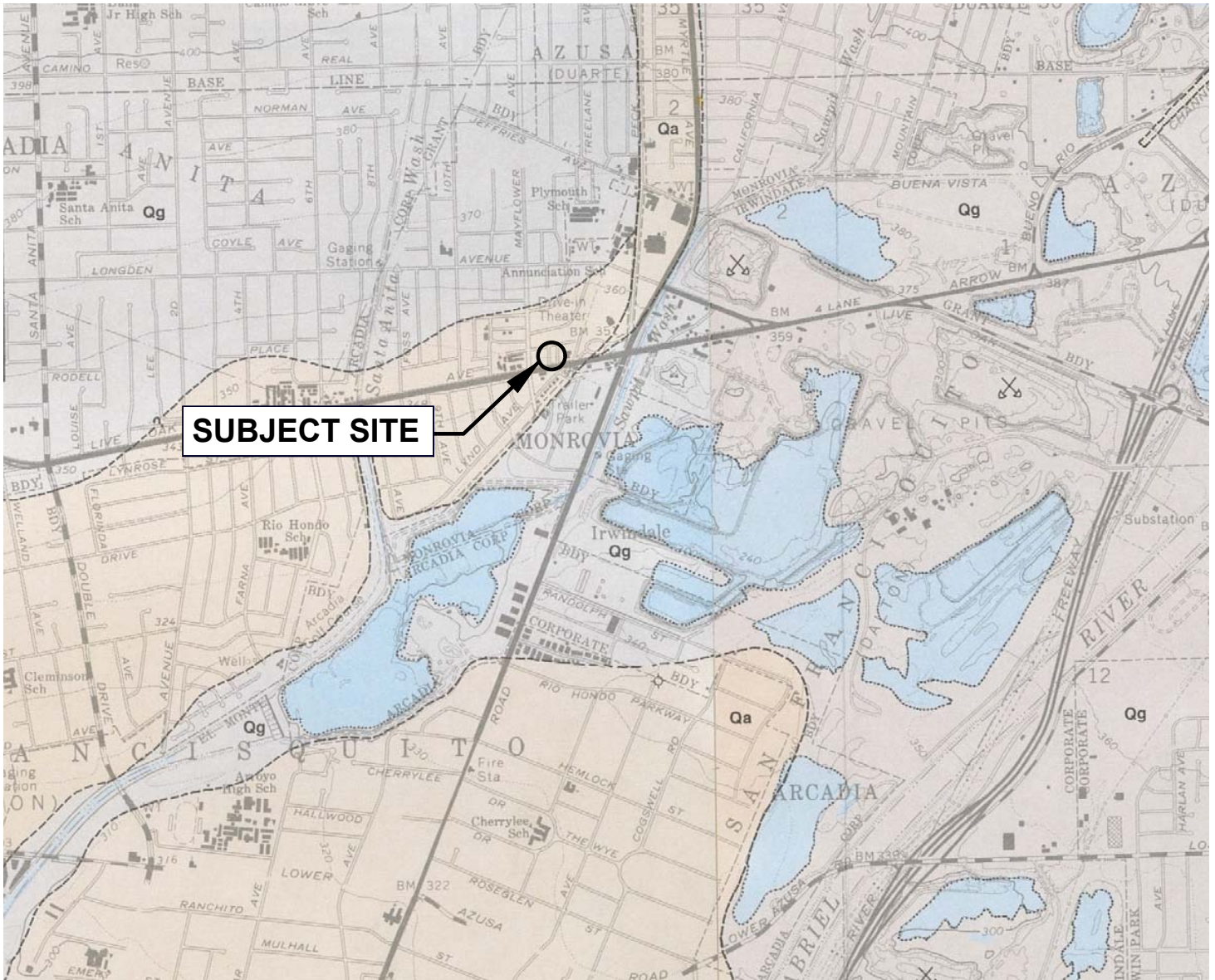


**Geotechnologies, Inc.**  
 Consulting Geotechnical Engineers

**BAYER MANAGEMENT, INC.**

FILE NO. 21371





**LEGEND**

**Qg:** Gravel and Sand of major streams, and alluvial fan detritus from San Gabriel Mountains

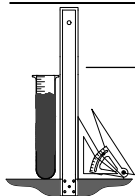
**Qa:** Alluvial Gravel, Sand, and Silt of valleys and floodplains

—....? Fault - dashed where indefinite or inferred, dotted where concealed, queried where existence is doubtful



REFERENCE: DIBBLEE, T.W., (1999), GEOLOGIC MAP OF THE EL MONTE AND BALDWIN PARK QUADRANGLES, MAP #DF-69

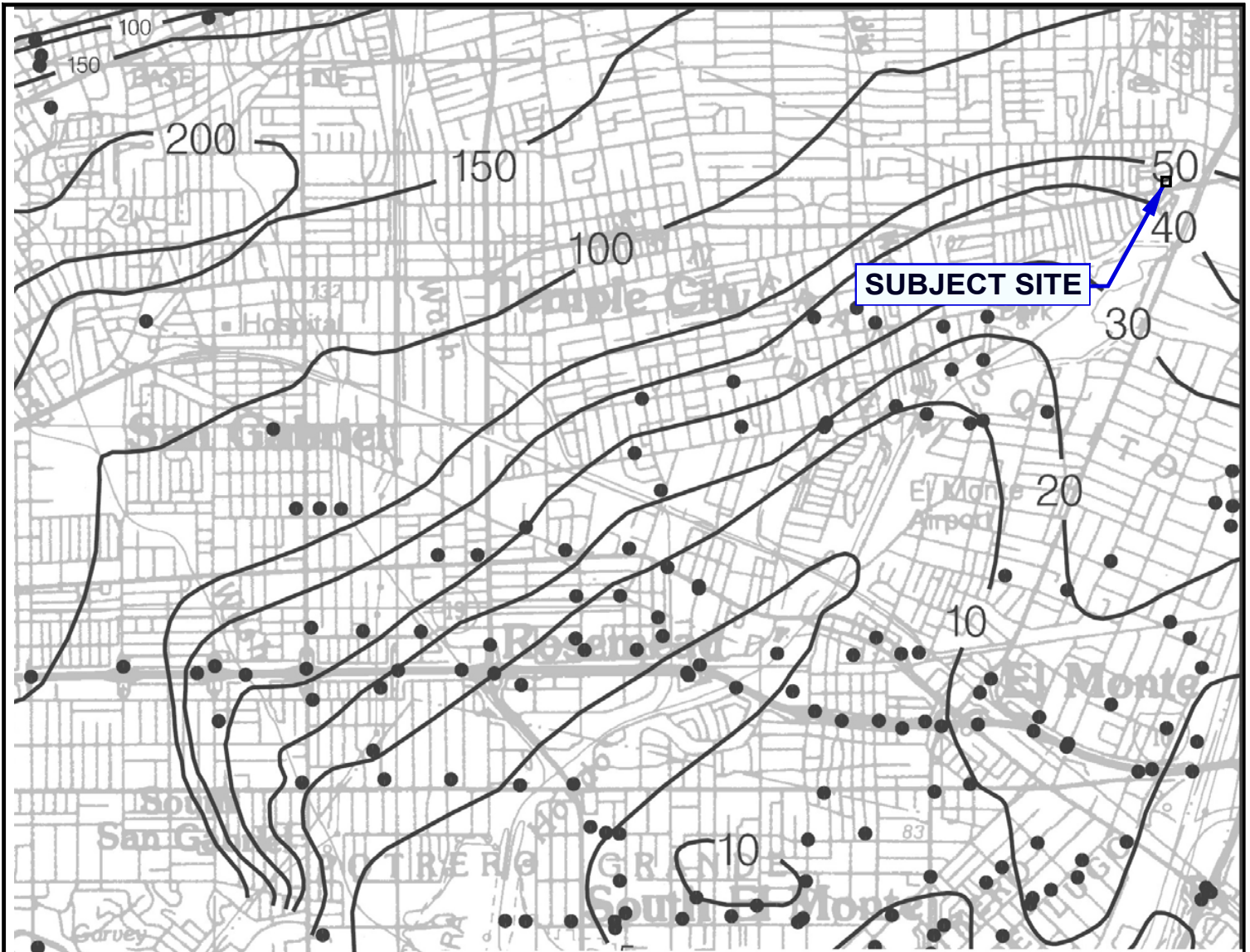
**LOCAL GEOLOGIC MAP**



**Geotechnologies, Inc.**  
*Consulting Geotechnical Engineers*

**BAYER MANAGEMENT, INC.**

**FILE NO. 21371**



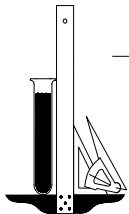
ONE MILE  
SCALE

20 Depth to groundwater in feet

REFERENCE: CDMG, SEISMIC HAZARD ZONE REPORT, 024  
EL MONTE 7.5 - MINUTE QUADRANGLE, LOS ANGELES COUNTY, CALIFORNIA (1998, REVISED 2005)



## HISTORICALLY HIGHEST GROUNDWATER LEVELS

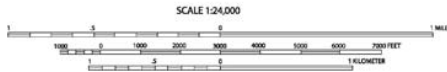
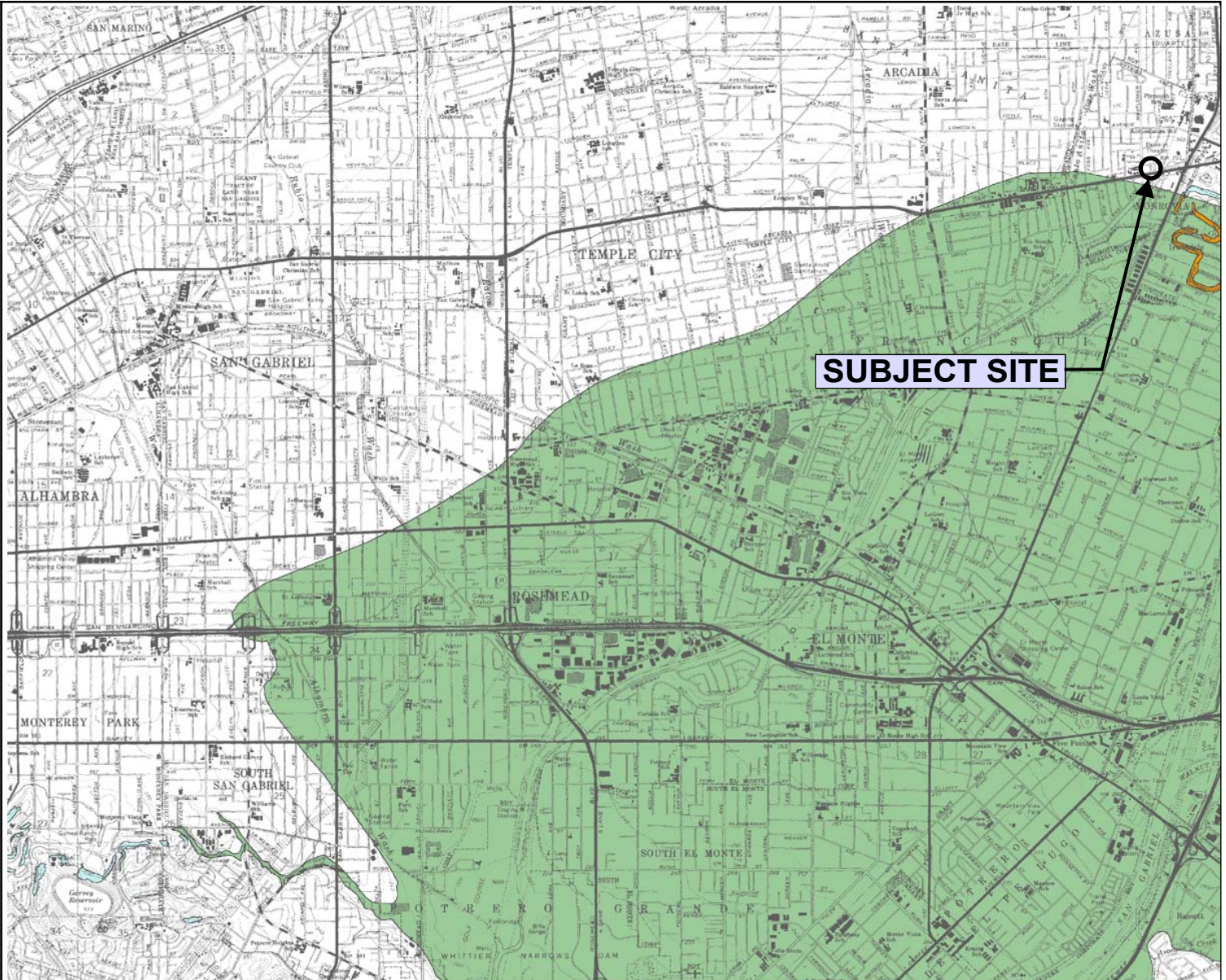


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**BAYER MANAGEMENT, INC.**

FILE NO. 21371



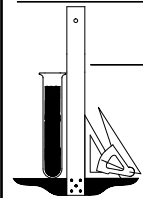


**LIQUEFACTION AREA**

REFERENCE: SEISMIC HAZARD ZONES, EL MONTE QUADRANGLE OFFICIAL MAP (CDMG, 1999)



# SEISMIC HAZARD ZONE MAP

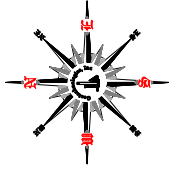


**Geotechnologies, Inc.**  
 Consulting Geotechnical Engineers


**BAYER MANAGEMENT, INC.**

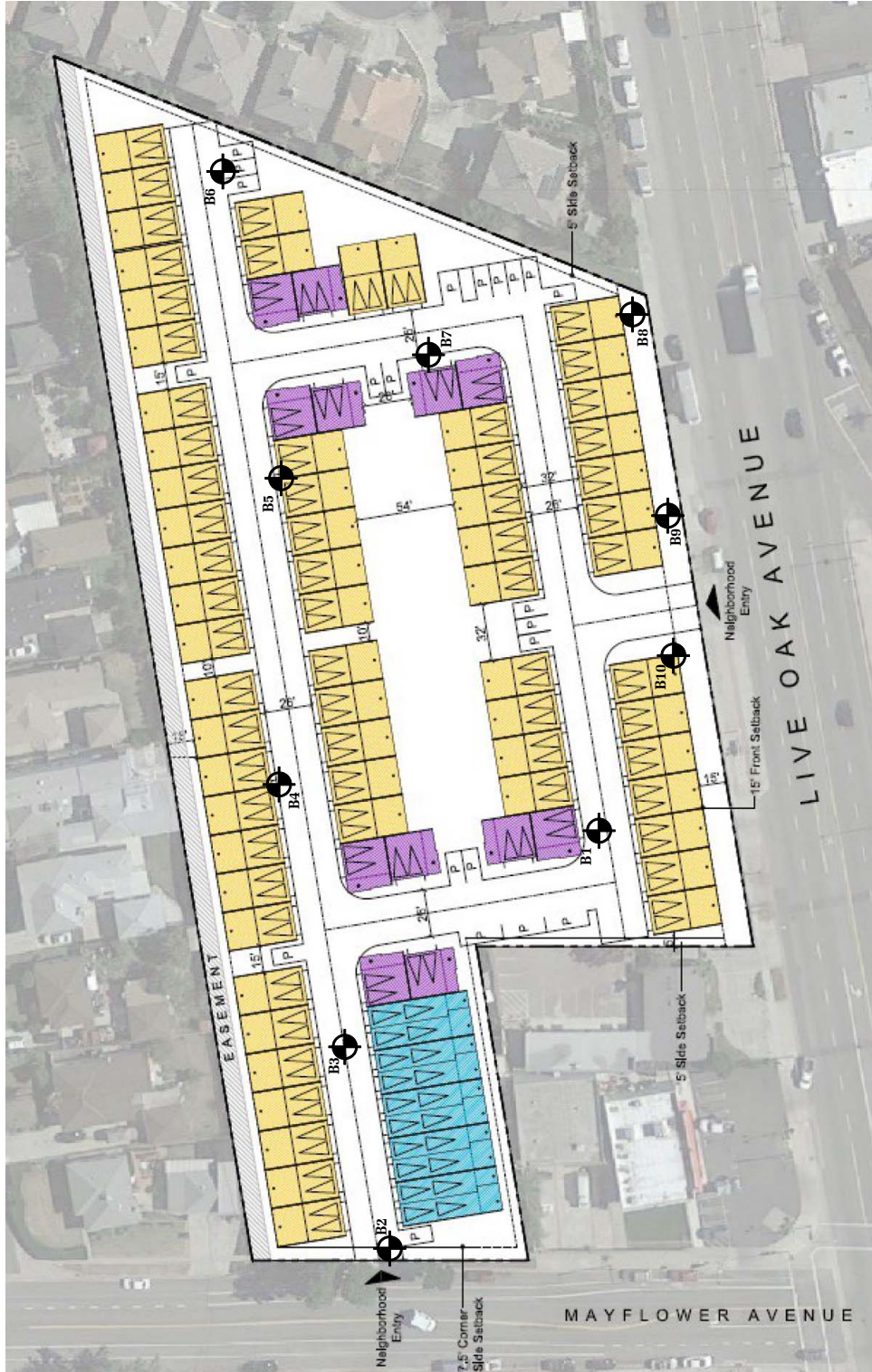
FILE NO. 21371



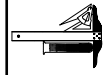


**LEGEND**

 LOCATION & NUMBER OF BORING



**PLOT PLAN**



**Geotechnologies, Inc.**  
Consulting Geotechnical Engineers

BAYER MANAGEMENT, INC.

FILE No. - 21371      DRAWN BY: TC

DATE: March '17

REFERENCE: CONCEPTUAL SITE PLAN (OUT) OF BY KTCV  
DATED FEBRUARY 22, 2017

# BORING LOG NUMBER 1

Bayer Management, Inc.

Date: 02/14/17

File No. 21371

Method: 8-inch Diameter Hollow Stem Auger

Sample Depth ft.	Blows per ft.	Moisture content %	Dry Density p.c.f.	Depth in feet	USCS Class.	Description
				0 --		Surface Conditions: Asphalt
				-		3-inch Asphalt over 4-inch Base
				1 --		FILL: Silty Sand, dark brown, moist, medium dense, fine grained
				-		
				2 --		
2.5	4	19.9	88.2	-		
				3 --		SM ALLUVIUM: Silty Sand, dark brown, moist, medium dense, fine grained
				-		
				4 --		
				-		
5	3	18.0	86.2	5 --		
				-		
				6 --		
				-		
				7 --		
7.5	4	13.1	90.7	-		
				8 --		
				-		
				9 --		
				-		
10	5	11.8	92.1	10 --		
				-		
				11 --		
				-		
				12 --		
				-		
				13 --		
				-		
				14 --		
				-		
15	34	1.6	Disturbed	15 --		
				-		
				16 --	SP/SW	Cobbly Sand to Sand, gray, moist, medium dense, fine to coarse grained
				-		
				17 --		
				-		
				18 --		
				-		
				19 --		Sand to Cobbly Sand, dark gray, moist, dense, fine to coarse grained
				-		
20	51	2.1	123.0	20 --		
				-		
				21 --		Total Depth 20 feet
				-		No Water
				22 --		Fill to 3 feet
				-		
				23 --		NOTE: The stratification lines represent the approximate boundary between earth types; the transition may be gradual.
				-		
				24 --		Used 8-inch diameter Hollow-Stem Auger
				-		140-lb. Automatic Hammer, 30-inch drop
				25 --		Modified California Sampler used unless otherwise noted
				-		

## BORING LOG NUMBER 2

Bayer Management, Inc.

Date: 02/14/17

File No. 21371

Method: 8-inch Diameter Hollow Stem Auger

Sample Depth ft.	Blows per ft.	Moisture content %	Dry Density p.c.f.	Depth in feet	USCS Class.	Description
				0 --		Surface Conditions: Asphalt
				-		2-inch Asphalt over 4-inch Base
				1 --		FILL: Silty Sand to Sandy Silt, dark brown, moist, medium dense, fine grained, stiff
				-		
2.5	5	23.0	71.1	2 --		
				-		SM ALLUVIUM: Silty Sand, dark brown, moist, medium dense, fine grained
				3 --		
				-		
5	7	3.9	88.2	5 --		SM/SP Silty Sand to Sand, dark brown, moist, medium dense, fine grained
				-		
				6 --		
				-		SM/ML Silty Sand to Sandy Silt, dark brown, moist, stiff, medium dense, fine grained
7.5	9	6.7	78.9	7 --		
				-		
				8 --		SP/SW Sand to Cobblely Sand, gray, slightly moist, medium dense, fine to coarse grained
				-		
				9 --		
				-		SW Cobblely Sand, gray, moist, dense, fine to coarse grained
10	11	7.0	86.0	10 --		
				-		
				11 --		Total Depth 20 feet No Water Fill to 3 feet
				-		
				12 --		
				-		NOTE: The stratification lines represent the approximate boundary between earth types; the transition may be gradual.
				13 --		
				-		
				14 --		Used 8-inch diameter Hollow-Stem Auger 140-lb. Automatic Hammer, 30-inch drop Modified California Sampler used unless otherwise noted
				-		
15	35	1.2	112.0	15 --		
				-		
				16 --		
				-		
				17 --		
				-		
				18 --		
				-		
				19 --		
				-		
20	69	1.2	132.3	20 --		
				-		
				21 --		
				-		
				22 --		
				-		
				23 --		
				-		
				24 --		
				-		
				25 --		
				-		

# BORING LOG NUMBER 3

Bayer Management, Inc.

Date: 02/14/17

File No. 21371

Method: 8-inch Diameter Hollow Stem Auger

Sample Depth ft.	Blows per ft.	Moisture content %	Dry Density p.c.f.	Depth in feet	USCS Class.	Description
				0 --		Surface Conditions: Asphalt
				-		4.5-inch Asphalt, No Base
				1 --		FILL: Silty Sand to Sandy Silt, dark brown, moist, medium dense, fine grained
				-		
2.5	3	17.5	85.6	2 --		
				-		SM/ML ALLUVIUM: Silty Sand to Sandy Silt, dark brown, moist, medium dense, fine grained, stiff
				3 --		
				-		
5	5	15.1	97.1	5 --		SM/SP Silty Sand to Sand, dark brown, moist, medium dense, fine grained
				-		
				6 --		
				-		SM/ML Silty Sand to Sandy Silt, dark brown, moist, medium dense, fine grained
7.5	5	23.0	87.2	7 --		
				-		
				8 --		SM Silty Sand, dark brown, moist, medium dense, fine grained
				9 --		
				-		
10	5	22.0	97.4	10 --		SM Silty Sand, dark brown, moist, medium dense, fine grained
				-		
				11 --		
				-		SP Sand, gray, moist, medium dense to dense, fine to medium grained, some gravel
				12 --		
				-		
				13 --		SP/SW Sand to Cobbley Sand, dark yellowish brown, moist, dense, fine to coarse grained
				-		
				14 --		
				-		Total Depth 20 feet No Water Fill to 2.5 feet
15	56	3.2	115.7	15 --		
				-		
				16 --		NOTE: The stratification lines represent the approximate boundary between earth types; the transition may be gradual.
				-		
				17 --		
				-		Used 8-inch diameter Hollow-Stem Auger 140-lb. Automatic Hammer, 30-inch drop Modified California Sampler used unless otherwise noted
				18 --		
				-		
				19 --		
				-		
20	85	3.7	129.8	20 --		
				-		
				21 --		
				-		
				22 --		
				-		
				23 --		
				-		
				24 --		
				-		
				25 --		
				-		

# BORING LOG NUMBER 5

Bayer Management, Inc.

Date: 02/13/17

File No. 21371

Method: 8-inch Diameter Hollow Stem Auger

Sample Depth ft.	Blows per ft.	Moisture content %	Dry Density p.c.f.	Depth in feet	USCS Class.	Description
				0 --		Surface Conditions: Asphalt
				-		3.5-inch Asphalt, No Base
				1 --		FILL: Silty Sand, dark brown, moist, medium dense, fine grained
				-		
				2 --		
2.5	5	15.1	82.4	-		
				3 --		SM ALLUVIUM: Silty Sand, dark brown, moist, medium dense, fine grained
				-		
				4 --		
				-		
5	5	15.6	90.3	5 --		
				-		
				6 --		
				-		
				7 --		
				-		
				8 --		
				-		
				9 --		
				-		
10	14	12.8	101.4	10 --		
				-		
				11 --		
				-		
				12 --		
				-		
				13 --		
				-		
				14 --		
				-		
15	40	No Recovery		15 --		
				-		
				16 --		
				-		
				17 --		
				-		
				18 --		
				-		
				19 --		
				-		
20	47	1.5	134.9	20 --	SP/SW	Sand to Gravelly Sand, dark grayish brown, moist, medium dense to dense, fine to coarse grained
				-		
				21 --		Total Depth 20 feet
				-		No Water
				22 --		Fill to 3 feet
				-		
				23 --		NOTE: The stratification lines represent the approximate boundary between earth types; the transition may be gradual.
				-		
				24 --		Used 8-inch diameter Hollow-Stem Auger
				-		140-lb. Automatic Hammer, 30-inch drop
				25 --		Modified California Sampler used unless otherwise noted
				-		

# BORING LOG NUMBER 6

Bayer Management, Inc.

Date: 02/13/17

File No. 21371

Method: 8-inch Diameter Hollow Stem Auger

Sample Depth ft.	Blows per ft.	Moisture content %	Dry Density p.c.f.	Depth in feet	USCS Class.	Description
				0 --		Surface Conditions: Asphalt
				-		3-inch Asphalt, No Base
				1 --		FILL: Silty Sand, dark brown, moist, medium dense, fine grained
				-		
				2 --		
2.5	5	18.7	96.1	-		
				3 --		SM ALLUVIUM: Silty Sand, dark brown, moist, medium dense, fine grained
				-		
				4 --		
				-		
5	6	14.4	99.2	5 --		
				-		
				6 --		
				-		
				7 --		
				-		
				8 --		
				-		
				9 --		
				-		
10	12	14.4	108.4	10 --		
				-		
				11 --		
				-		
				12 --		
				-		
				13 --		
				-		
				14 --		
				-		
15	34	5.1	96.1	15 --		
				-	SP	Sand, dark yellowish brown, moist, medium dense, fine grained, minor cobbles
				16 --		
				-		
				17 --		
				-		
				18 --		
				-		
				19 --		Sand to Cobbly Sand, dark gray, moist, very dense, fine to coarse grained
				-	SP/SW	
20	50/4"	1.6	123.6	20 --		
				-		Total Depth 20 feet No Water Fill to 3 feet
				21 --		
				-		
				22 --		
				-		
				23 --		NOTE: The stratification lines represent the approximate boundary between earth types; the transition may be gradual.
				-		
				24 --		Used 8-inch diameter Hollow-Stem Auger 140-lb. Automatic Hammer, 30-inch drop Modified California Sampler used unless otherwise noted
				-		
				25 --		
				-		



# BORING LOG NUMBER 7

Bayer Management, Inc.

Date: 02/13/17

File No. 21371

Method: 8-inch Diameter Hollow Stem Auger

Sample Depth ft.	Blows per ft.	Moisture content %	Dry Density p.c.f.	Depth in feet	USCS Class.	Description
				0 --		Surface Conditions: Bare Ground
				-		FILL: Silty Sand, dark brown, moist, medium dense, fine grained
				1 --		
				-		
2.5	5	13.4	82.4	2 --		
				3 --		
				-	SM	ALLUVIUM: Silty Sand, dark brown, moist, medium dense, fine grained
				4 --		
5	5	8.0	SPT	5 --		
				-		
				6 --		
				-		No Recovery
7.5	7			7 --		
				-		
				8 --		
				-		
				-		Silty Sand to Sand, dark yellowish brown, moist, medium dense, fine grained
10	12	3.1	SPT	10 --	SM/SP	
				-		
				11 --		
				-		
				-		Sand to Cobbly Sand, dark gray, moist, medium dense, fine to coarse grained
12.5	46	0.6	129.5	12 --	SP/SW	
				-		
				13 --		
				-		
				-		No Recovery
15	16			15 --		
				-		
				16 --		
				-		
				-		Cobbly Sand, dark brown to gray, moist, very dense, fine to coarse grained
17.5	50/4"			17 --		
				-		
				18 --		
				-		
				-		Gravelly Sand, dark gray, moist, very dense, fine to coarse grained
20	50/5"	0.2	SPT	20 --	SW	
				-		
				21 --		
				-		
				-		Sand, dark gray, moist, dense, fine to medium grained, minor gravel
22.5	50/5"	1.3	132.5	22 --	SW	
				-		
				23 --		
				-		
				-		No Recovery
25	40	0.9	SPT	25 --	SP	
				-		

# BORING LOG NUMBER 7

Bayer Management, Inc.

File No. 21371

Sample Depth ft.	Blows per ft.	Moisture content %	Dry Density p.c.f.	Depth in feet	USCS Class.	Description
				-		
				26 --		
				-		
				27 --		
				-		
27.5	47	1.6	114.8	28 --		gray, slightly moist, medium dense
				-		
				29 --		
				-		
30	50/5"	4.5	SPT	30 --	ML	Sandy to Clayey Silt, dark brown, moist, stiff
				-		
				31 --		
				-		
				32 --	SW	Cobbly Sand, gray, moist, very dense, fine to coarse grained
				-		
32.5	100/7"	2.0	130.3	33 --		
				-		
				34 --		
				-		
35	62	1.9	SPT	35 --	SP	Sand, yellowish gray, moist, very dense, fine to medium grained, minor cobbles
				-		
				36 --		
				-		
				37 --		
				-		
37.5	100/6"	1.8	91.4	38 --	SW	Cobbly Sand, grayish brown, moist, very hard, fine to coarse grained
				-		
				39 --		
				-		
40	100/6"	1.4	SPT	40 --		
				-		
				41 --		
				-		
				42 --		
				-		
42.5	100/7"	1.6	134.5	43 --		grayish to yellowish brown, moist, very dense, fine to coarse grained
				-		
				44 --		
				-		
45	100/9"	1.5	SPT	45 --		NOTE: The stratification lines represent the approximate boundary between earth types; the transition may be gradual.
				-		
				46 --		Used 8-inch diameter Hollow-Stem Auger
				-		140-lb. Automatic Hammer, 30-inch drop
				47 --		Modified California Sampler used unless otherwise noted
				-		
47.5	50/3"	1.8	125.5	48 --		SPT=Standard Penetration Test
				-		
				49 --	SP	Sand, grayish to yellowish brown, moist, very dense, fine to medium grained
				-		
50	50/6"	1.8	SPT	50 --		Total Depth 50 feet
				-		No Water
						Fill to 3 feet

# BORING LOG NUMBER 8

Bayer Management, Inc.

Date: 02/13/17

File No. 21371

Method: 8-inch Diameter Hollow Stem Auger

Sample Depth ft.	Blows per ft.	Moisture content %	Dry Density p.c.f.	Depth in feet	USCS Class.	Description
				0 --		Surface Conditions: Bare Ground
2.5	4	16.6	77.5	-		FILL: Silty Sand to Sandy Silt, dark brown, moist, medium dense, fine grained, stiff
				1 --		
				2 --		
				-		
5	7	19.2	102.0	3 --		Sandy Silt to Silty Sand, dark brown, moist, medium dense, fine grained, stiff
				4 --		
				5 --	SM/ML	
				6 --		
7.5	5	17.4	98.8	7 --		ALLUVIUM: Silty Sand to Sandy Silt, dark brown, moist, medium dense, fine grained, stiff
				8 --	SM	
				9 --		
				10 --		
10	11	17.0	109.9	11 --		Silty Sand, dark brown, moist, medium dense, fine grained
				12 --		
				13 --		
				14 --		
15	50/6"	2.7	121.0	15 --		Silty Sand to Sand, dark gray, moist, medium dense to very dense, fine to medium grained, minor cobbles
				16 --	SM/SP	
				17 --		
				18 --		
20	50/5.5"	2.8	131.4	19 --		Sand to Cobbley Sand, dark gray, moist, very dense, fine to coarse grained
				20 --	SP/SW	
				21 --		
				22 --		
				23 --		Total Depth 20 feet No Water Fill to 5 feet
				24 --		NOTE: The stratification lines represent the approximate boundary between earth types; the transition may be gradual.
				25 --		Used 8-inch diameter Hollow-Stem Auger 140-lb. Automatic Hammer, 30-inch drop Modified California Sampler used unless otherwise noted

# BORING LOG NUMBER 9

Bayer Management, Inc.

Date: 02/13/17

File No. 21371

Method: 8-inch Diameter Hollow Stem Auger

Sample Depth ft.	Blows per ft.	Moisture content %	Dry Density p.c.f.	Depth in feet	USCS Class.	Description
				0 --		Surface Conditions: Bare Ground
2.5	9	19.9	97.2	-		FILL: Silty Sand, dark brown, moist, medium dense, fine grained
				1 --		
				2 --		
				3 --		
				4 --		
5	10	17.0	97.3	5 --		ALLUVIUM: Silty Sand, dark brown, moist, medium dense, fine grained
				6 --	SM	
				7 --		
7.5	8	8.8	97.0	8 --		
				9 --		
				10 --		
10	11	12.1	101.3	11 --		
				12 --		
				13 --		
				14 --		
15	36	No Recovery		15 --		
				16 --		
				17 --		
				18 --		
				19 --		
20	100/9"	0.7	96.4	20 --	SW	Cobbly Sand, gray, slightly moist, very dense, fine to coarse grained
				21 --		Total Depth 20 feet No Water Fill to 5 feet
				22 --		NOTE: The stratification lines represent the approximate boundary between earth types; the transition may be gradual.
				23 --		
				24 --		
				25 --		Used 8-inch diameter Hollow-Stem Auger 140-lb. Automatic Hammer, 30-inch drop Modified California Sampler used unless otherwise noted

# BORING LOG NUMBER 10

Bayer Management, Inc.

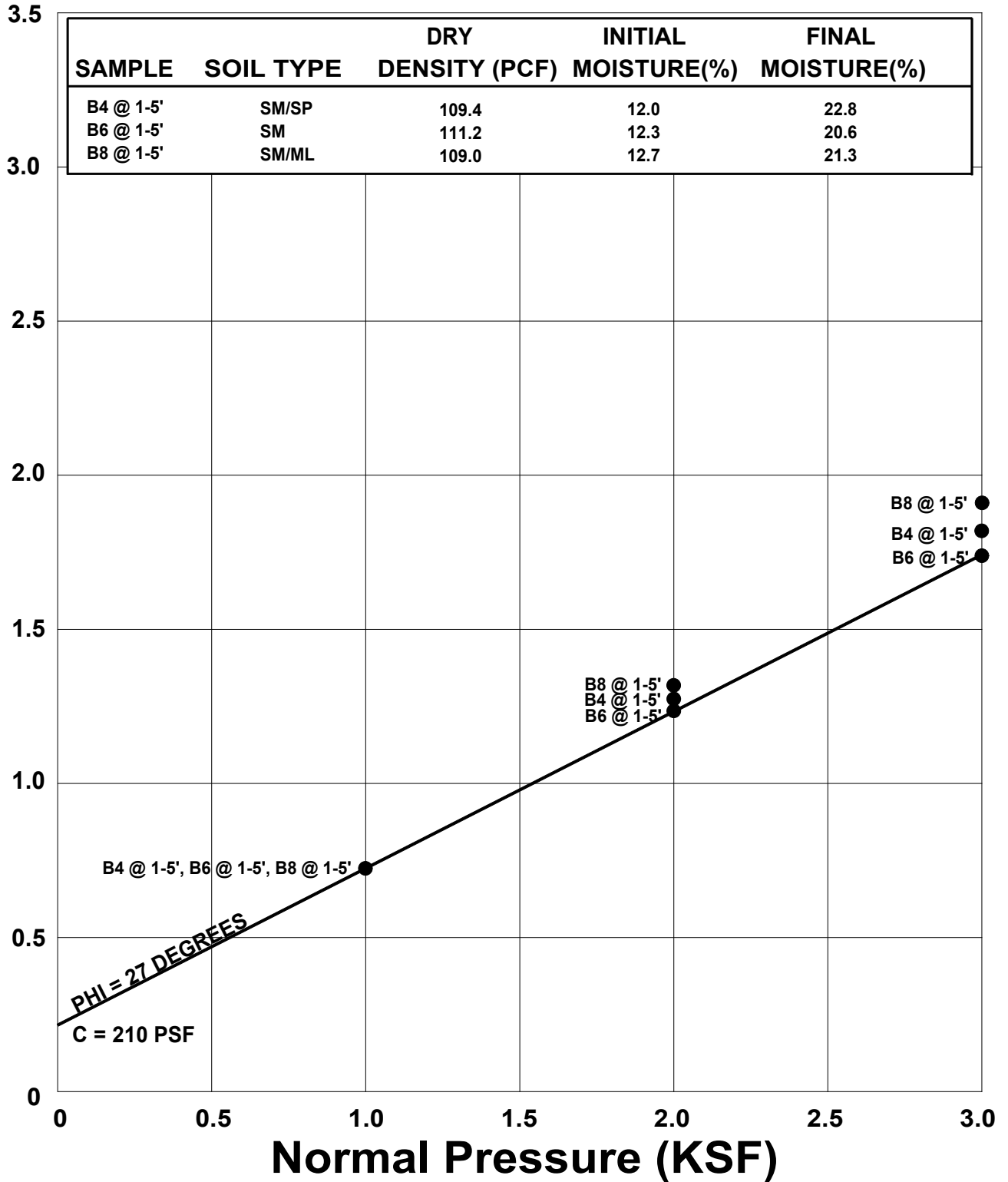
Date: 02/14/17

File No. 21371

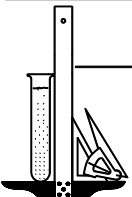
Method: 8-inch Diameter Hollow Stem Auger

Sample Depth ft.	Blows per ft.	Moisture content %	Dry Density p.c.f.	Depth in feet	USCS Class.	Description
				0 --		Surface Conditions: Asphalt
				-		5-inch Asphalt, No Base
				1 --		FILL: Silty Sand to Sandy Silt, dark brown, moist
				2 --		
2.5	2	18.1	84.2	-		
				3 --	SM	ALLUVIUM: Silty Sand, dark brown, moist, medium dense, fine grained
				-		
5	3	19.0	83.0	5 --		
				-		
				6 --		
				-		
7.5	4	12.5	94.0	7 --		
				-		
				8 --	SM/SP	Silty Sand to Sand, dark brown, moist, medium dense, fine grained
				-		
				9 --		
				-		
10	5	13.5	96.4	10 --		
				-		
				11 --	SM	Silty Sand, dark brown, moist, medium dense, fine grained
				-		
				12 --		
				-		
				13 --		
				-		
				14 --		
				-		
15	19	2.7	102.5	15 --		
				-		
				16 --	SP	Sand, dark brown, moist, medium dense, fine to medium grained, minor gravel
				-		
				17 --		
				-		
				18 --		
				-		
				19 --		Sand to Cobblely Sand, gray, moist, dense, fine to coarse grained
				-		
20	72	1.5	129.1	20 --	SP/SW	
				-		
				21 --		Total Depth 20 feet
				-		No Water
				22 --		Fill to 2.5 feet
				-		
				23 --		NOTE: The stratification lines represent the approximate boundary between earth types; the transition may be gradual.
				-		
				24 --		Used 8-inch diameter Hollow-Stem Auger
				-		140-lb. Automatic Hammer, 30-inch drop
				25 --		Modified California Sampler used unless otherwise noted
				-		

**BULK SAMPLE REMOLDED TO 90 PERCENT  
OF THE MAXIMUM LABORATORY DENSITY**



**SHEAR TEST DIAGRAM**



**Geotechnologies, Inc.**  
Consulting Geotechnical Engineers

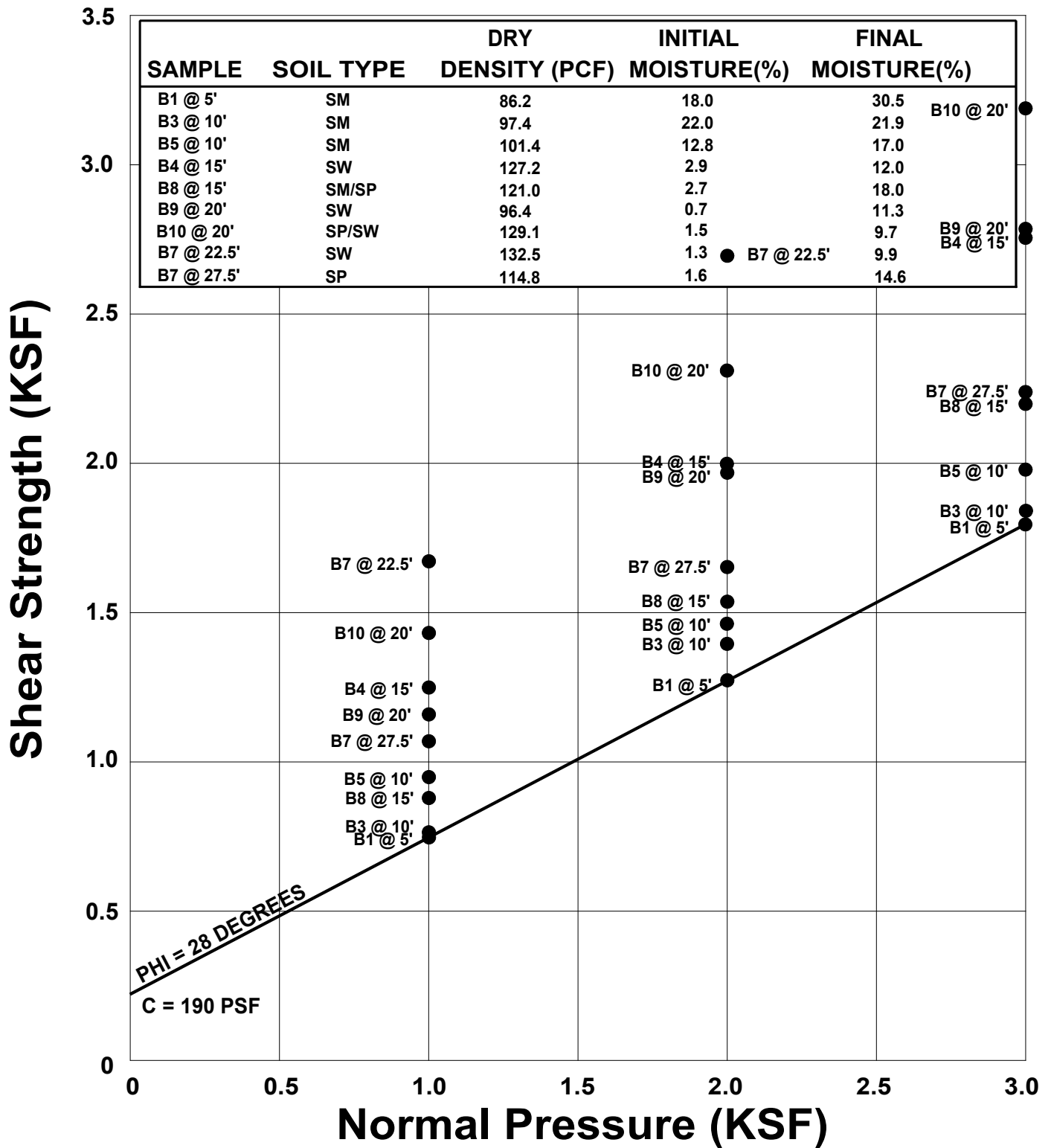
BAYER MANAGEMENT, INC.

FILE NO. 21371

PLATE: B-1

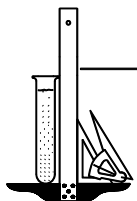


B7 @ 22.5' ●



● Direct Shear, Saturated

### SHEAR TEST DIAGRAM



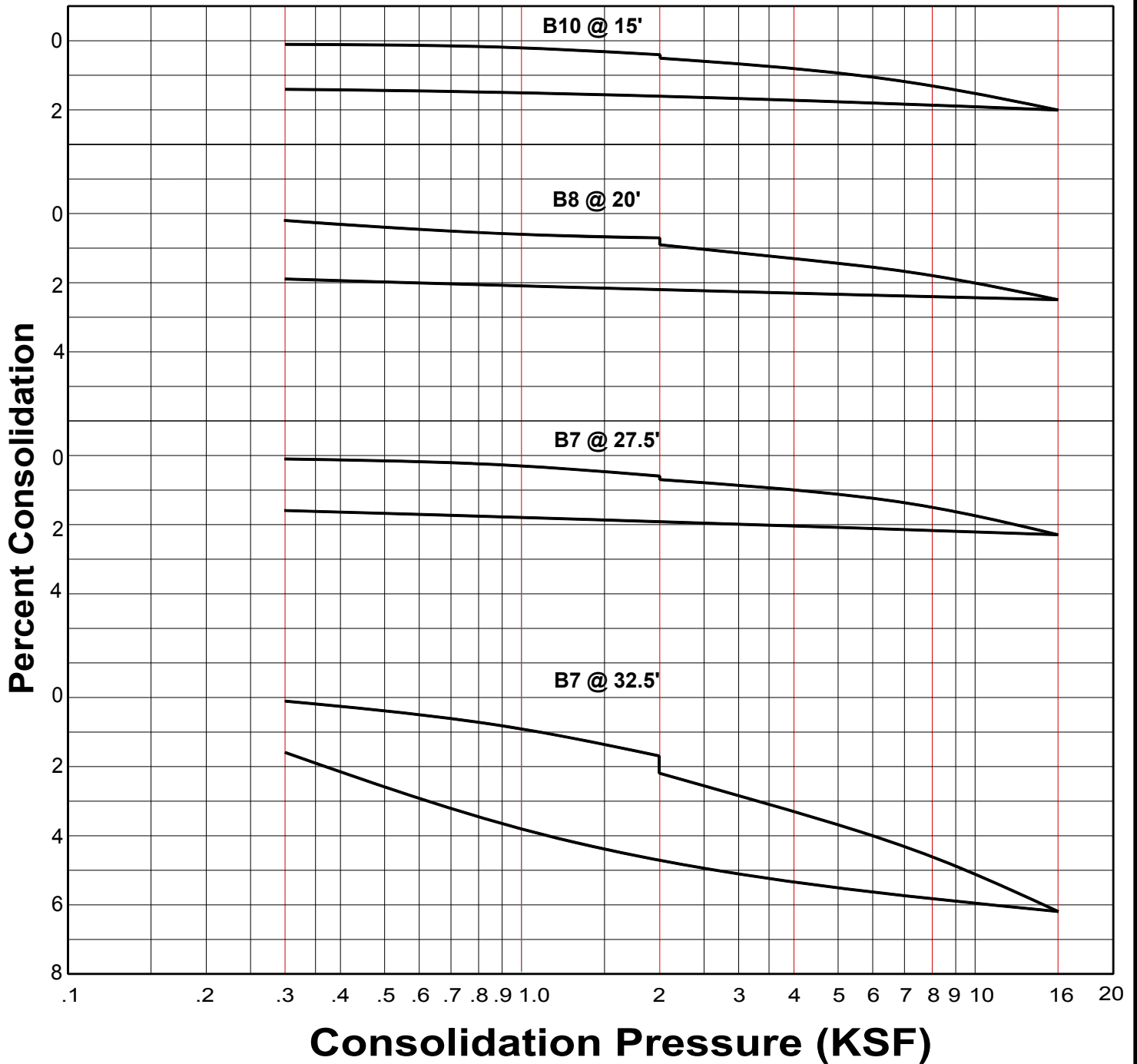
**Geotechnologies, Inc.**  
 Consulting Geotechnical Engineers

**BAYER MANAGEMENT, INC.**

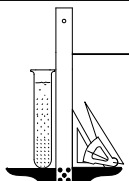
FILE NO. 21371

PLATE: B-2

WATER ADDED AT 2 KSF



## CONSOLIDATION TEST



**Geotechnologies, Inc.**  
Consulting Geotechnical Engineers

**BAYER MANAGEMENT, INC.**

FILE NO. 21371

PLATE: C

### ASTM D 1557

SAMPLE	B4 @ 1- 5'	B6 @ 1-5'	B8 @ 1-5'
SOIL TYPE:	SM/SP	SM	SM/ML
MAXIMUM DENSITY pcf.	121.6	123.5	121.1
OPTIMUM MOISTURE %	12.0	12.3	12.7

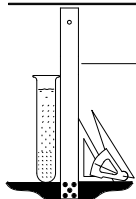
### ASTM D 4829

SAMPLE	B4 @ 1- 5'	B6 @ 1-5'	B8 @ 1-5'
SOIL TYPE:	SM/SP	SM	SM/ML
EXPANSION INDEX UBC STANDARD 18-2	28	28	25
EXPANSION CHARACTER	<u>LOW</u>	<u>LOW</u>	<u>LOW</u>

### SULFATE CONTENT

SAMPLE	B4 @ 1- 5'	B6 @ 1-5'	B8 @ 1-5'
SULFATE CONTENT: (percentage by weight)	< 0.10%	< 0.10%	< 0.10%

## COMPACTION/EXPANSION DATA SHEET



**Geotechnologies, Inc.**  
Consulting Geotechnical Engineers

BAYER MANAGEMENT, INC.

FILE NO. 21371

PLATE: D



# Geotechnologies, Inc.

Project: Bayer Management, Inc.  
 File No.: 21371  
 Description: Liquefaction Analysis (2% Exceedance in 50 Years)  
 Boring No: 7

## LIQUEFACTION EVALUATION (Idriss & Boulanger, EERI NO 12)

### EARTHQUAKE INFORMATION:

Earthquake Magnitude (M):	6.6
Peak Ground Horizontal Acceleration, PGA (g):	0.75
Calculated Mag. Wtg. Factor:	1.267

### GROUNDWATER INFORMATION:

Current Groundwater Level (ft):	51.0
Historically Highest Groundwater Level* (ft):	47.0
Unit Weight of Water (pcf):	62.4

\* Based on California Geological Survey Seismic Hazard Evaluation Report

### BOREHOLE AND SAMPLER INFORMATION:

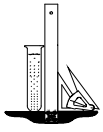
Borehole Diameter (inches):	8
SPT Sampler with room for Liner (Y/N):	Y

### LIQUEFACTION BOUNDARY:

Plastic Index Cut Off (PI):	18
Minimum Liquefaction FS:	1.3

Depth to Base Layer (feet)	Total Unit Weight (pcf)	Current Water Level (feet)	Historical Water Level (feet)	Field SPT Blowcount N	Depth of SPT Blowcount (feet)	Fines Content #200 Sieve (%)	Plastic Index (PI)	Vertical Stress $\sigma_{v0}$ (psf)	Effective Vert. Stress $\sigma'_{v0}$ (psf)	Fines Corrected $(N_1)_{60-65}$	Stress Reduction Coeff. $r_d$	Cyclic Shear Ratio CSR	Cyclic Resistance Ratio (CRR)	Factor of Safety CRR/CSR (F.S.)	Liquefaction Settlement $\Delta S_L$ (inches)
1	93.5	Unsaturated	Unsaturated	5	5	0.0	0	93.5	93.5	10.1	1.00	0.490	0.165	Non-Liq.	0.00
2	93.5	Unsaturated	Unsaturated	5	5	0.0	0	187.0	187.0	10.1	1.00	0.488	0.165	Non-Liq.	0.00
3	130.3	Unsaturated	Unsaturated	5	5	0.0	0	317.3	317.3	10.1	1.00	0.487	0.165	Non-Liq.	0.00
4	130.3	Unsaturated	Unsaturated	5	5	0.0	0	447.6	447.6	10.1	0.99	0.485	0.165	Non-Liq.	0.00
5	130.3	Unsaturated	Unsaturated	5	5	0.0	0	577.9	577.9	10.8	0.99	0.483	0.172	Non-Liq.	0.00
6	130.3	Unsaturated	Unsaturated	5	5	0.0	0	708.2	708.2	10.8	0.99	0.481	0.172	Non-Liq.	0.00
7	130.3	Unsaturated	Unsaturated	5	5	0.0	0	838.5	838.5	10.4	0.98	0.479	0.166	Non-Liq.	0.00
8	130.3	Unsaturated	Unsaturated	5	5	0.0	0	968.8	968.8	9.7	0.98	0.477	0.157	Non-Liq.	0.00
9	130.3	Unsaturated	Unsaturated	5	5	0.0	0	1099.1	1099.1	9.6	0.97	0.475	0.155	Non-Liq.	0.00
10	130.3	Unsaturated	Unsaturated	12	10	0.0	0	1229.4	1229.4	22.0	0.97	0.472	0.318	Non-Liq.	0.00
11	130.3	Unsaturated	Unsaturated	12	10	0.0	0	1359.7	1359.7	21.0	0.96	0.470	0.294	Non-Liq.	0.00
12	130.3	Unsaturated	Unsaturated	12	10	0.0	0	1490.0	1490.0	20.1	0.96	0.468	0.274	Non-Liq.	0.00
13	130.3	Unsaturated	Unsaturated	16	15	0.0	0	1620.3	1620.3	26.5	0.95	0.465	0.436	Non-Liq.	0.00
14	130.3	Unsaturated	Unsaturated	16	15	0.0	0	1750.6	1750.6	25.5	0.95	0.463	0.397	Non-Liq.	0.00
15	130.3	Unsaturated	Unsaturated	16	15	0.0	0	1880.9	1880.9	28.1	0.94	0.460	0.501	Non-Liq.	0.00
16	130.3	Unsaturated	Unsaturated	16	15	0.0	0	2011.2	2011.2	27.2	0.94	0.458	0.453	Non-Liq.	0.00
17	130.3	Unsaturated	Unsaturated	16	15	0.0	0	2141.5	2141.5	26.4	0.93	0.455	0.415	Non-Liq.	0.00
18	130.3	Unsaturated	Unsaturated	16	15	0.0	0	2271.8	2271.8	25.7	0.93	0.452	0.385	Non-Liq.	0.00
19	130.3	Unsaturated	Unsaturated	16	15	0.0	0	2402.1	2402.1	25.0	0.92	0.449	0.360	Non-Liq.	0.00
20	130.3	Unsaturated	Unsaturated	50	20	0.0	0	2532.4	2532.4	84.6	0.92	0.447	2.000	Non-Liq.	0.00
21	130.3	Unsaturated	Unsaturated	50	20	0.0	0	2662.7	2662.7	83.5	0.91	0.444	2.000	Non-Liq.	0.00
22	130.3	Unsaturated	Unsaturated	50	20	0.0	0	2793.0	2793.0	82.4	0.90	0.441	2.000	Non-Liq.	0.00
23	134.2	Unsaturated	Unsaturated	50	20	0.0	0	2927.2	2927.2	81.4	0.90	0.438	2.000	Non-Liq.	0.00
24	134.2	Unsaturated	Unsaturated	50	20	0.0	0	3061.4	3061.4	80.5	0.89	0.435	2.000	Non-Liq.	0.00
25	134.2	Unsaturated	Unsaturated	40	25	0.0	0	3195.6	3195.6	63.7	0.89	0.432	2.000	Non-Liq.	0.00
26	134.2	Unsaturated	Unsaturated	40	25	0.0	0	3329.8	3329.8	63.0	0.88	0.429	2.000	Non-Liq.	0.00
27	134.2	Unsaturated	Unsaturated	40	25	0.0	0	3464.0	3464.0	62.3	0.87	0.426	2.000	Non-Liq.	0.00
28	116.7	Unsaturated	Unsaturated	40	25	0.0	0	3598.2	3598.2	65.0	0.87	0.423	2.000	Non-Liq.	0.00
29	116.7	Unsaturated	Unsaturated	40	25	0.0	0	3697.4	3697.4	64.5	0.86	0.420	2.000	Non-Liq.	0.00
30	116.7	Unsaturated	Unsaturated	50	30	0.0	0	3814.1	3814.1	80.0	0.85	0.417	2.000	Non-Liq.	0.00
31	132.9	Unsaturated	Unsaturated	50	30	0.0	0	3947.0	3947.0	79.2	0.85	0.414	2.000	Non-Liq.	0.00
32	132.9	Unsaturated	Unsaturated	50	30	0.0	0	4079.9	4079.9	78.5	0.84	0.411	2.000	Non-Liq.	0.00
33	132.9	Unsaturated	Unsaturated	50	30	0.0	0	4212.8	4212.8	77.9	0.84	0.408	2.000	Non-Liq.	0.00
34	132.9	Unsaturated	Unsaturated	50	30	0.0	0	4345.7	4345.7	77.3	0.83	0.405	1.994	Non-Liq.	0.00
35	132.9	Unsaturated	Unsaturated	62	35	0.0	0	4478.6	4478.6	95.0	0.82	0.402	1.971	Non-Liq.	0.00
36	132.9	Unsaturated	Unsaturated	62	35	0.0	0	4611.5	4611.5	94.3	0.82	0.398	1.949	Non-Liq.	0.00
37	132.9	Unsaturated	Unsaturated	62	35	0.0	0	4744.4	4744.4	93.6	0.81	0.395	1.928	Non-Liq.	0.00
38	93.0	Unsaturated	Unsaturated	100	40	0.0	0	4837.4	4837.4	150.2	0.80	0.392	1.914	Non-Liq.	0.00
39	93.0	Unsaturated	Unsaturated	100	40	0.0	0	4930.4	4930.4	149.5	0.80	0.389	1.899	Non-Liq.	0.00
40	93.0	Unsaturated	Unsaturated	100	40	0.0	0	5023.4	5023.4	148.7	0.79	0.386	1.885	Non-Liq.	0.00
41	93.0	Unsaturated	Unsaturated	100	40	0.0	0	5116.4	5116.4	148.0	0.78	0.383	1.872	Non-Liq.	0.00
42	93.0	Unsaturated	Unsaturated	100	40	0.0	0	5209.4	5209.4	147.3	0.78	0.380	1.858	Non-Liq.	0.00
43	136.6	Unsaturated	Unsaturated	100	40	0.0	0	5346.0	5346.0	146.3	0.77	0.377	1.839	Non-Liq.	0.00
44	136.6	Unsaturated	Unsaturated	100	40	0.0	0	5482.6	5482.6	145.3	0.77	0.374	1.820	Non-Liq.	0.00
45	136.6	Unsaturated	Unsaturated	100	45	0.0	0	5619.2	5619.2	144.4	0.76	0.371	1.802	Non-Liq.	0.00
46	136.6	Unsaturated	Unsaturated	100	45	0.0	0	5755.8	5755.8	143.5	0.75	0.367	1.784	Non-Liq.	0.00
47	136.6	Unsaturated	Unsaturated	100	45	0.0	0	5892.4	5892.4	142.6	0.75	0.364	1.766	Non-Liq.	0.00
48	127.8	Unsaturated	Saturated	100	45	0.0	0	6020.2	5957.8	141.8	0.74	0.365	1.758	4.8	0.00
49	127.8	Unsaturated	Saturated	100	45	0.0	0	6148.0	6023.2	141.0	0.73	0.366	1.750	4.8	0.00
50	127.8	Unsaturated	Saturated	50	50	0.0	0	6275.8	6088.6	70.1	0.73	0.366	1.742	4.8	0.00

Total Liquefaction Settlement, S = 0.00 inches



# Geotechnologies, Inc.

Project: Bayer Management, Inc.

File No.: 21371

Description: Cantilever Retaining Walls (Up to 10 feet)

## Retaining Wall Design with Level Backfill (Vector Analysis)

Input:

Retaining Wall Height (H) 10.00 feet

Unit Weight of Retained Soils (γ) 125.0 pcf

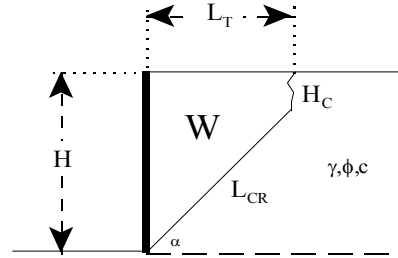
Friction Angle of Retained Soils (φ) 28.0 degrees

Cohesion of Retained Soils (c) 190.0 psf

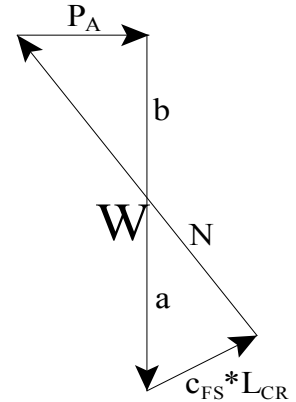
Factor of Safety (FS) 1.50

Factored Parameters: (φ<sub>FS</sub>) 19.5 degrees

(c<sub>FS</sub>) 126.7 psf



Failure Angle (α) degrees	Height of Tension Crack (H <sub>c</sub> ) feet	Area of Wedge (A) feet <sup>2</sup>	Weight of Wedge (W) lbs/lineal foot	Length of Failure Plane (L <sub>CR</sub> ) feet	a lbs/lineal foot	b lbs/lineal foot	Active Pressure (P <sub>A</sub> ) lbs/lineal foot
40	3.6	52	6502.8	10.0	3416.7	3086.1	1152.7
41	3.5	51	6331.2	10.0	3252.0	3079.2	1211.8
42	3.4	49	6157.2	9.9	3097.7	3059.5	1266.2
43	3.3	48	5982.4	9.9	2953.4	3028.9	1315.9
44	3.2	46	5807.7	9.8	2818.5	2989.2	1361.1
45	3.1	45	5634.0	9.7	2692.3	2941.6	1401.9
46	3.1	44	5461.7	9.6	2574.4	2887.4	1438.5
47	3.0	42	5291.5	9.5	2463.9	2827.5	1470.8
48	3.0	41	5123.4	9.4	2360.5	2762.9	1499.0
49	3.0	40	4957.6	9.3	2263.5	2694.2	1523.2
50	2.9	38	4794.4	9.2	2172.4	2622.0	1543.4
51	2.9	37	4633.7	9.1	2086.8	2546.9	1559.6
52	2.9	36	4475.6	9.0	2006.2	2469.4	1572.1
53	2.9	35	4319.9	8.9	1930.2	2389.7	1580.6
54	2.9	33	4166.8	8.8	1858.5	2308.4	1585.4
55	2.9	32	4016.1	8.7	1790.6	2225.5	1586.4
56	2.9	31	3867.8	8.6	1726.3	2141.5	1583.6
57	2.9	30	3721.7	8.5	1665.2	2056.5	1577.0
58	2.9	29	3577.8	8.4	1607.1	1970.7	1566.6
59	2.9	27	3435.9	8.3	1551.7	1884.3	1552.3
60	2.9	26	3296.0	8.1	1498.7	1797.4	1534.1
61	3.0	25	3158.0	8.0	1447.9	1710.1	1512.0
62	3.0	24	3021.6	7.9	1399.0	1622.6	1485.9
63	3.1	23	2886.9	7.8	1351.9	1535.0	1455.7
64	3.1	22	2753.6	7.7	1306.3	1447.3	1421.4
65	3.2	21	2621.6	7.5	1261.9	1359.7	1382.8



Design Equations (Vector Analysis):  
 $a = c_{FS} * L_{CR} * \sin(90 + \phi_{FS}) / \sin(\alpha - \phi_{FS})$   
 $b = W - a$   
 $P_A = b * \tan(\alpha - \phi_{FS})$   
 $EFP = 2 * P_A / H^2$

Maximum Active Pressure Resultant

$P_{A, max}$

1586.4 | lbs/lineal foot

Equivalent Fluid Pressure (per lineal foot of wall)

$$EFP = 2 * P_A / H^2$$

EFP

31.7 pcf

Design Wall for an Equivalent Fluid Pressure:

32 pcf

## Geotechnologies, Inc.

Project: Bayer Management, Inc.

File No.: 21371

Soil Weight	$\gamma$	125 pcf
Internal Friction Angle	$\phi$	28 degrees
Cohesion	c	0 psf
Height of Retaining Wall	H	10 feet

### Restrained Retaining Wall Design based on At Rest Earth Pressure

$$\sigma'_h = K_o \sigma'_v$$

$$K_o = 1 - \sin\phi \quad 0.531$$

$$\sigma'_v = \gamma H \quad 1250.0 \text{ psf}$$

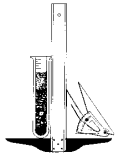
$$\sigma'_h = 663.2 \text{ psf}$$

$$\text{EFP} = 66.3 \text{ pcf}$$

$$P_o = 3315.8 \text{ lbs/ft} \quad (\text{based on a triangular distribution of pressure})$$

Design wall for an EFP of 67 pcf





## Geotechnologies, Inc.

Project: Bayer Management, Inc.

File No.: 21371

### Seismically Induced Lateral Soil Pressure on Retaining Wall

#### **Input:**

Height of Retaining Wall: (H) 10.0 feet  
Retained Soil Unit Weight: ( $\gamma$ ) 125.0 pcf  
Horizontal Ground Acceleration: ( $k_h$ ) 0.25 g

#### **Seismic Increment ( $\Delta P_{AE}$ ):**

$$\Delta P_{AE} = (0.5 * \gamma * H^2) * (0.75 * k_h)$$

$$\Delta P_{AE} = 1171.9 \text{ lbs/ft}$$

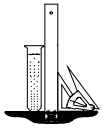
Transfer load to 1/3 of the height of the wall

$$T * (2/3) * H = \Delta P_{AE} * 0.6 * H$$

$$T = 1054.7 \text{ lbs/ft}$$

$$EFP = 2 * T / H^2$$

$$EFP = 21.1 \text{ pcf}$$

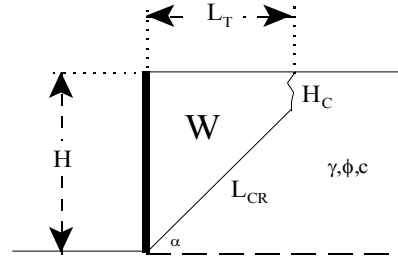


# Geotechnologies, Inc.

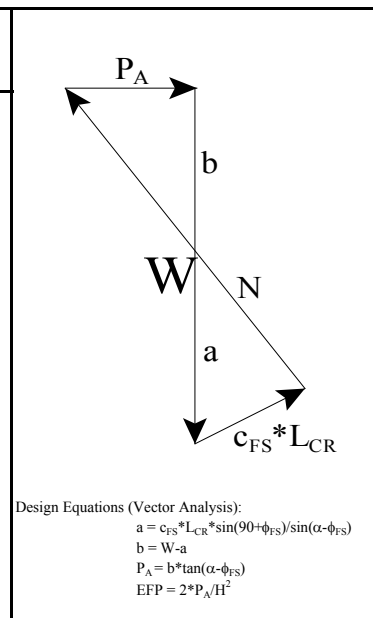
Project: Bayer Management, Inc.  
 File No.: 21371  
 Description: Temporary Shoring Walls (to 12 feet)

## Shoring Design with Level Backfill (Vector Analysis)

Input:  
 Shoring Height (H) 12.00 feet  
 Unit Weight of Retained Soils (γ) 125.0 pcf  
 Friction Angle of Retained Soils (φ) 28.0 degrees  
 Cohesion of Retained Soils (c) 190.0 psf  
 Factor of Safety (FS) 1.25  
 Factored Parameters:  
 (φ<sub>FS</sub>) 23.0 degrees  
 (c<sub>FS</sub>) 152.0 psf



Failure Angle (α) degrees	Height of Tension Crack (H <sub>c</sub> ) feet	Area of Wedge (A) feet <sup>2</sup>	Weight of Wedge (W) lbs/lineal foot	Length of Failure Plane (L <sub>CR</sub> ) feet	a lbs/lineal foot	b lbs/lineal foot	Active Pressure (P <sub>A</sub> ) lbs/lineal foot
40	5.0	71	8857.3	10.9	5216.4	3640.9	1110.1
41	4.8	70	8690.5	11.0	4972.7	3717.7	1204.8
42	4.6	68	8504.2	11.0	4739.1	3765.1	1293.2
43	4.5	66	8304.5	11.0	4517.1	3787.4	1375.3
44	4.3	65	8095.5	11.0	4307.2	3788.4	1450.9
45	4.2	63	7880.5	11.0	4109.4	3771.1	1520.3
46	4.1	61	7661.7	10.9	3923.5	3738.3	1583.5
47	4.0	60	7441.0	10.9	3748.9	3692.2	1640.5
48	4.0	58	7219.6	10.8	3585.0	3634.7	1691.5
49	3.9	56	6998.6	10.7	3431.1	3567.4	1736.6
50	3.8	54	6778.5	10.7	3286.7	3491.8	1775.9
51	3.8	52	6560.0	10.6	3150.9	3409.1	1809.4
52	3.8	51	6343.4	10.5	3023.2	3320.3	1837.2
53	3.7	49	6129.0	10.4	2902.9	3226.1	1859.4
54	3.7	47	5916.9	10.3	2789.4	3127.5	1876.0
55	3.7	46	5707.3	10.1	2682.2	3025.1	1887.1
56	3.7	44	5500.2	10.0	2580.8	2919.3	1892.7
57	3.7	42	5295.5	9.9	2484.7	2810.8	1892.8
58	3.7	41	5093.4	9.8	2393.5	2699.9	1887.5
59	3.7	39	4893.6	9.7	2306.6	2587.0	1876.6
60	3.7	38	4696.2	9.6	2223.7	2472.5	1860.2
61	3.8	36	4500.9	9.4	2144.4	2356.5	1838.2
62	3.8	34	4307.8	9.3	2068.3	2239.5	1810.7
63	3.8	33	4116.7	9.2	1995.1	2121.5	1777.4
64	3.9	31	3927.3	9.0	1924.4	2002.9	1738.4
65	4.0	30	3739.7	8.9	1855.9	1883.8	1693.6



Maximum Active Pressure Resultant

$$P_{A, \max}$$

1892.8 | lbs/lineal foot

Equivalent Fluid Pressure (per lineal foot of shoring)

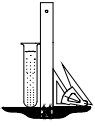
$$EFP = 2 * P_A / H^2$$

EFP

26.3 pcf

Design Shoring for an Equivalent Fluid Pressure:

27 pcf



# Geotechnologies, Inc.

Project: Bayer Management, Inc.  
 File No.: 21371

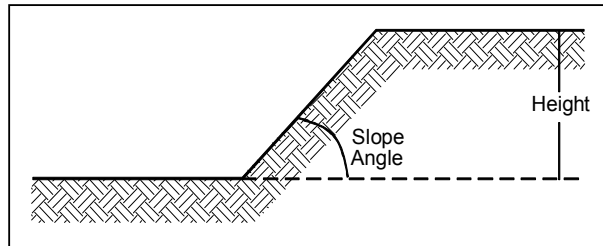
## Slope Stability Calculations

### Input

Soil Density ( $\gamma$ ) 125 pcf  
 Friction Angle ( $\phi$ ) 28 degrees  
 Cohesion (c) 190 psf  
 Factor of Safety (FS) 1.25

### Stability Number (N)

( $\phi_d$ ) 23.0 degrees  
 $N_{(2:1)}$  0.000  
 $N_{(1.5:1)}$  0.023  
 $N_{(1:1)}$  0.052  
 $N_{(3/4:1)}$  0.070  
 $N_{(1:1.5)}$  0.077  
 $N_{(1:2)}$  0.094  
 $N_{(vertical)}$  0.169



Slope Angle (h:v)	Slope Angle (Degrees)	Maximum Height (Feet)
2 : 1	26.00	#DIV/0!
1 1/2 : 1	33.69	53
1 : 1	45.00	23
3/4 : 1	53.13	17
1 : 1 1/2	56.30	16
1/2 : 1	63.43	13
Vertical	90.00	7

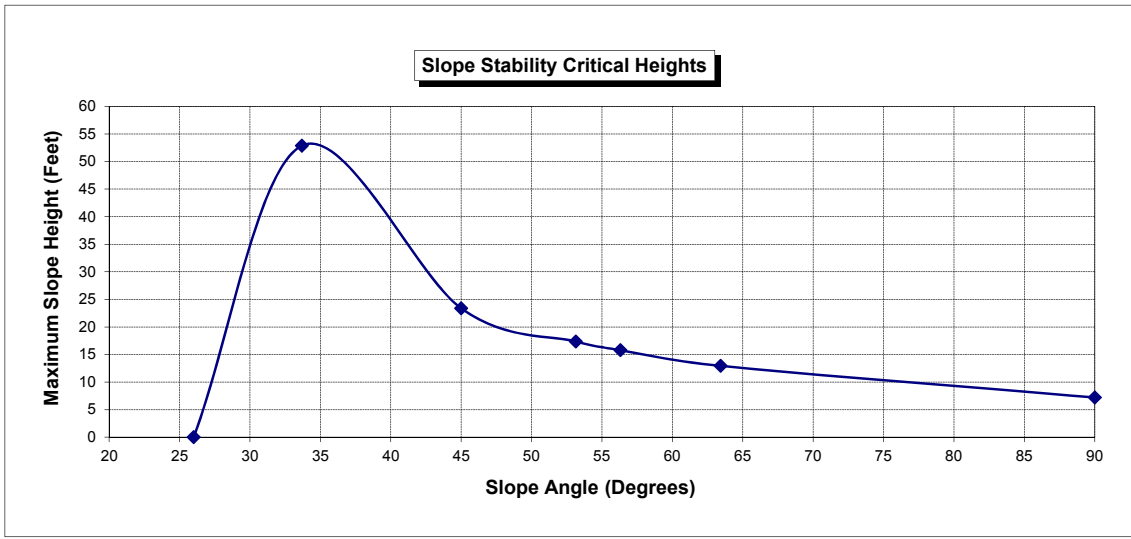
**Reference: Taylor's Chart (1937)**

$$(\phi_d) = \text{ArcTan}[(\text{Tan}\phi)/\text{FS}]$$

$$N = \frac{c}{(\gamma)(H)(\text{FS})}$$

$$H = \frac{c}{(\gamma)(N)(\text{FS})}$$

Assumptions: Slope is uniform, soils are homogeneous, no water seepage, no surcharge loads.





March 1, 2017

via email: sprince@geoteq.com

GEOTECHNOLOGIES, INC.  
439 Western Ave.  
Glendale, CA 91201

Attention: Mr. Scott Prince

Re: Soil Corrosivity Study  
Bayer Management, Inc.  
Arcadia, California  
HDR #17-0106SCS, GI #21371

## Introduction

Laboratory tests have been completed on one soil sample provided for the referenced project. The purpose of these tests was to determine if the soils might have deleterious effects on underground utility piping, hydraulic elevator cylinders, and concrete structures. HDR Engineering, Inc. (HDR) assumes that the sample provided is representative of the most corrosive soil at the site.

The proposed structures will have three stories and one subterranean level. The project sites are located at 4343 and 4317 East Live Oak Avenue in Arcadia, California, and the water table is reportedly greater than 50 feet deep. Prior uses of the site include residential construction.

The scope of this study is limited to a determination of soil corrosivity and general corrosion control recommendations for materials likely to be used for construction. HDR's recommendations do not constitute, and are not meant as a substitute for, design documents for the purpose of construction. If the architects and/or engineers desire more specific information, designs, specifications, or review of design, HDR will be happy to work with them as a separate phase of this project.

## Laboratory Soil Corrosivity Tests

The electrical resistivity of the sample was measured in a soil box per ASTM G187 in its as-received condition and again after saturation with distilled water. Resistivities are at about their lowest value when the soil is saturated. The pH of the saturated sample was measured per CTM 643. A 5:1 water:soil extract from the sample was chemically analyzed for the major soluble salts commonly found in soil per ASTM D4327, ASTM D6919, and Standard Method 2320-B<sup>1</sup>. Laboratory test results are shown in the attached Table 1.

## Soil Corrosivity

A major factor in determining soil corrosivity is electrical resistivity. The electrical resistivity of a soil is a measure of its resistance to the flow of electrical current. Corrosion of buried metal is an electrochemical process in which the amount of metal loss due to corrosion is directly proportional to the flow of electrical current (DC) from the metal into the soil. Corrosion currents, following Ohm's Law, are inversely proportional to soil resistivity. Lower electrical resistivities result from higher moisture and soluble salt contents and indicate corrosive soil.

A correlation between electrical resistivity and corrosivity toward ferrous metals is:<sup>2</sup>

Soil Resistivity in ohm-centimeters	Corrosivity Category
Greater than 10,000	Mildly Corrosive
2,001 to 10,000	Moderately Corrosive
1,001 to 2,000	Corrosive
0 to 1,000	Severely Corrosive

Other soil characteristics that may influence corrosivity towards metals are pH, soluble salt content, soil types, aeration, anaerobic conditions, and site drainage.

The electrical resistivity was in the mildly corrosive category with as-received moisture. When saturated, the resistivity was in the moderately corrosive category.

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<sup>1</sup> American Public Health Association (APHA). 2012. *Standard Methods of Water and Wastewater*. 22nd ed. American Public Health Association, American Water Works Association, Water Environment Federation publication. APHA, Washington D.C.

<sup>2</sup> Romanoff, Melvin. *Underground Corrosion*, NBS Circular 579. Reprinted by NACE. Houston, TX, 1989, pp. 166–167.

Soil pH was 7.6. This value is mildly alkaline and does not particularly increase soil corrosivity.<sup>3</sup>

The soluble salt content of the sample was low.

Nitrate was detected in a low concentration.

Tests were not made for sulfide and oxidation-reduction (redox) potential because these samples did not exhibit characteristics typically associated with anaerobic conditions.

This soil is classified as moderately corrosive to ferrous metals.

## Corrosion Control Recommendations

The life of buried materials depends on thickness, strength, loads, construction details, soil moisture, etc., in addition to soil corrosivity, and is, therefore, difficult to predict. Of more practical value are corrosion control methods that will increase the life of materials that would be subject to significant corrosion.

The following recommendations are based on the soil conditions discussed in the Soil Corrosivity section above. Unless otherwise indicated, these recommendations apply to the entire site or alignment.

### Steel Pipe

Implement *all* the following measures:

1. Underground steel pipe with rubber gasketed, mechanical, grooved end, or other nonconductive type joints should be bonded for electrical continuity. Electrical continuity is necessary for corrosion monitoring and the possible future application of cathodic protection.
2. Install corrosion monitoring test stations to facilitate corrosion monitoring and the possible future application of cathodic protection:
  - a. At each end of the pipeline.
  - b. At each end of all casings.

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<sup>3</sup> Romanoff, Melvin. *Underground Corrosion*, NBS Circular 579. Reprinted by NACE. Houston, TX, 1989, p. 8.



- c. Other locations as necessary so the interval between test stations does not exceed 1,200 feet.
3. To prevent dissimilar metal corrosion cells and to facilitate the possible future application of cathodic protection, electrically isolate each buried steel pipeline per NACE SP0286 from:
  - a. Dissimilar metals.
  - b. Dissimilarly coated piping (cement-mortar vs. dielectric).
  - c. Above ground steel pipe.
  - d. All existing piping.
4. Choose one of the following corrosion control options:

**OPTION 1**

- a. Apply a suitable dielectric coating intended for underground use such as:
  - i. Polyurethane per AWWA C222 *or*
  - ii. Extruded polyethylene per AWWA C215 *or*
  - iii. A tape coating system per AWWA C214 *or*
  - iv. Hot applied coal tar enamel per AWWA C203 *or*
  - v. Fusion bonded epoxy per AWWA C213.
- b. Although it is customary to cathodically protect bonded dielectrically coated structures, cathodic protection is not recommended at this time due to moderately corrosive soils. Joint bonds, test stations, and insulated joints should still be installed and will facilitate the application of cathodic protection in the future if needed to control leaks.

**OPTION 2**

- a. As an alternative to dielectric coating and possible future cathodic protection, apply a ¾-inch cement mortar coating per AWWA C205 or encase in concrete 3 inches thick, using any type of ASTM C150 cement.

Joint bonds, test stations, and insulated joints are still recommended for these alternatives.

NOTE: Some steel piping systems, such as for oil, gas, and high-pressure piping systems, have special corrosion and cathodic protection requirements that must be evaluated for each specific application.

## Hydraulic Elevator

Implement *all* the following measures:

1. Choose one of the following corrosion control options for the hydraulic steel cylinders.

### OPTION 1

- a. Coat hydraulic elevator cylinders with a suitable dielectric coating intended for underground use such as:
  - i. Polyurethane per AWWA C222 or
  - ii. Extruded polyethylene per AWWA C215 or
  - iii. A tape coating system per AWWA C214 or
  - iv. Hot applied coal tar enamel per AWWA C203 or
  - v. Fusion bonded epoxy per AWWA C213.
- b. Electrically insulate each cylinder from building metals by installing dielectric material between the piston platen and car, insulating the bolts, and installing an insulated joint in the oil line.
- c. Apply cathodic protection to hydraulic cylinders as per NACE SP0169.

### OPTION 2

- a. As an alternative to electrical insulation and cathodic protection, place each cylinder in a plastic casing with a plastic watertight seal at the bottom.
2. The elevator oil line should be placed above ground if possible but, if underground, should be protected by one of the following corrosion control options:

**OPTION 1**

- a. Provide a bonded dielectric coating.
- b. Electrically isolate the pipeline.
- c. Apply cathodic protection to steel piping as per NACE SP0169.

**OPTION 2**

- a. Place the oil line in a PVC casing pipe with solvent-welded joints and seal the ends to prevent contact with soil and moisture.

**Iron Pipe**

Implement *all* the following measures:

1. To prevent dissimilar metal corrosion cells and to facilitate the possible future application of cathodic protection, electrically insulate underground iron pipe from dissimilar metals and from above ground iron pipe with insulating joints per NACE SP0286.
2. Bond all nonconductive type joints for electrical continuity. Electrical continuity is necessary for corrosion monitoring and possible future application of cathodic protection.
3. Install corrosion monitoring test stations to facilitate corrosion monitoring and the possible future application of cathodic protection:
  - a. At each end of the pipeline.
  - b. At each end of any casings.
  - c. Other locations as necessary so the interval between test stations does not exceed 1,200 feet.
4. Choose one of the following corrosion control options:

**OPTION 1**

- a. Apply a suitable coating intended for underground use such as:

- i. Polyethylene encasement per AWWA C105; *or*
- ii. Epoxy coating; *or*
- iii. Polyurethane; *or*
- iv. Wax tape.

NOTE: The thin factory-applied asphaltic coating applied to ductile iron pipe for transportation and aesthetic purposes does not constitute a corrosion control coating.

- b. Although it is customary to cathodically protect coated structures, cathodic protection is not recommended at this time due to moderately corrosive soils. Joint bonds, test stations, and insulated joints should still be installed and will facilitate the application of cathodic protection in the future if needed to control leaks.

## **OPTION 2**

- a. As an alternative to coating systems described in Option 1 and possible future cathodic protection, concrete encase all buried portions of metallic piping so that there is a minimum of 3 inches of concrete cover provided over and around surfaces of pipe, fittings, and valves using any type of ASTM C150 cement.

## **Copper Tubing**

Implement *all* the following measures:

1. Electrically insulate underground copper pipe from dissimilar metals and from above ground copper pipe with insulating devices per NACE SP0286.
2. Electrically insulate cold water piping from hot water piping systems.
3. Place cold water copper tubing in an 8-mil polyethylene sleeve or encase in double 4-mil thick polyethylene sleeves and bed and backfill with clean sand at least 2 inches thick surrounding the tubing. Clean sand should have a minimum resistivity of no less than 3,000 ohm-cm, and a pH of 6.0–8.0. Copper tubing for cold water can also be treated the same as for hot water.

4. Hot water tubing may be subject to a higher corrosion rate. Protect hot copper tubing by one of the following measures:
  - a. Preventing soil contact. Soil contact may be prevented by placing the tubing above ground or encasing the tubing with PVC pipe with solvent-welded joints. *or*
  - b. Applying cathodic protection per NACE SP0169. The amount of cathodic protection current needed can be minimized by coating the tubing.

### **Plastic and Vitrified Clay Pipe**

1. No special precautions are required for plastic and vitrified clay piping placed underground from a corrosion viewpoint.
2. Protect all metallic fittings and valves with wax tape per AWWA C217 or epoxy.

### **All Pipe**

1. On all pipes, appurtenances, and fittings not protected by cathodic protection, coat bare metal such as valves, bolts, flange joints, joint harnesses, and flexible couplings with wax tape per AWWA C217 after assembly.
2. Where metallic pipelines penetrate concrete structures such as building floors, vault walls, and thrust blocks use plastic sleeves, rubber seals, or other dielectric material to prevent pipe contact with the concrete and reinforcing steel.

### **Concrete**

1. From a corrosion standpoint, any type of ASTM C150 cement may be used for concrete structures and pipe because the sulfate concentration is negligible, 0 to 0.10 percent.<sup>4,5,6</sup>

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<sup>4</sup> 2015 International Building Code (IBC) which refers to American Concrete Institute (ACI) 318 Table 19.3.2.1

<sup>5</sup> 2012 International Residential Code (IRC) which refers to American Concrete Institute (ACI) 318 Table 19.3.2.1

<sup>6</sup> 2013 California Building Code (CBC) which refers to American Concrete Institute (ACI) 318 Table 19.3.2.1

2. Standard concrete cover over reinforcing steel may be used for concrete structures and pipe in contact with these soils due to the low chloride concentration<sup>7</sup> found onsite.

## Closure

The analysis and recommendations presented in this report are based upon data obtained from the laboratory samples. This report does not reflect variations that may occur across the site or due to the modifying effects of construction. If variations appear, HDR should be notified immediately so that further evaluation and supplemental recommendations can be provided.

HDR's services have been performed with the usual thoroughness and competence of the engineering profession. No other warranty or representation, either expressed or implied, is included or intended.

Please call if you have any questions.

Respectfully Submitted,  
HDR Engineering, Inc.



James Keegan

Greg Frost, PE

Enc: Table 1

17-0106SCS SCS JK-GF.docx

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<sup>7</sup> Design Manual 303: Concrete Cylinder Pipe. Ameron. p.65





**Table 1 - Laboratory Tests on Soil Samples**

**Geotechnologies, Inc.  
Bayer Management, Inc.  
Your #21371, HDR Lab #17-0106SCS  
23-Feb-17**

Sample ID		B10 @ 1-5' SM	
<b>Resistivity</b>		<b>Units</b>	
as-received		ohm-cm	37,200
saturated		ohm-cm	9,200
<b>pH</b>			7.6
<b>Electrical</b>			
<b>Conductivity</b>		mS/cm	0.06
<b>Chemical Analyses</b>			
<b>Cations</b>			
calcium	Ca <sup>2+</sup>	mg/kg	44
magnesium	Mg <sup>2+</sup>	mg/kg	8.7
sodium	Na <sup>1+</sup>	mg/kg	15
potassium	K <sup>1+</sup>	mg/kg	13
<b>Anions</b>			
carbonate	CO <sub>3</sub> <sup>2-</sup>	mg/kg	ND
bicarbonate	HCO <sub>3</sub> <sup>1-</sup>	mg/kg	104
fluoride	F <sup>1-</sup>	mg/kg	4.1
chloride	Cl <sup>1-</sup>	mg/kg	2.8
sulfate	SO <sub>4</sub> <sup>2-</sup>	mg/kg	24
phosphate	PO <sub>4</sub> <sup>3-</sup>	mg/kg	5.3
<b>Other Tests</b>			
ammonium	NH <sub>4</sub> <sup>1+</sup>	mg/kg	ND
nitrate	NO <sub>3</sub> <sup>1-</sup>	mg/kg	5.6
sulfide	S <sup>2-</sup>	qual	na
Redox		mV	na

Resistivity per ASTM G187, Cations per ASTM D6919, Anions per ASTM D4327, and Alkalinity per APHA 2320-B.

Electrical conductivity in millisiemens/cm and chemical analyses were made on a 1:5 soil-to-water extract.

mg/kg = milligrams per kilogram (parts per million) of dry soil.

Redox = oxidation-reduction potential in millivolts

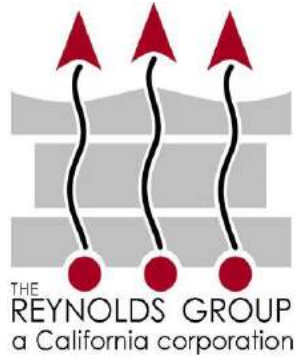
ND = not detected

na = not analyzed

**Phase I  
Environmental  
Site Assessment**

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**APPENDIX E**



## **PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT**



**4343 E. Live Oak**



**4371 E. Live Oak**

**March 24, 2017**

**Mobile Home Park and  
Undeveloped Parcel  
4343 and 4371 E. Live Oak Avenue  
Arcadia, California**

**TRG Project #8318**

# TABLE OF CONTENTS

## PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

Mobile Home Park and Undeveloped Parcel  
4343 and 4371 E. Live Oak Avenue  
Arcadia, California

<b>1.0</b>	<b>EXECUTIVE SUMMARY</b> .....	1
<b>2.0</b>	<b>INTRODUCTION</b> .....	2
2.1	Purpose .....	2
2.2	Scope of Work.....	3
2.3	Limitations and Exceptions .....	3
2.4	Reliance.....	4
2.5	Proprietary Notice.....	5
<b>3.0</b>	<b>USER PROVIDED INFORMATION</b> .....	5
3.1	Reason for Performing the Phase I ESA .....	5
3.2	Title Records, Liens, Property Use Limitations .....	6
3.3	Value Reduction for Environmental Issues.....	6
<b>4.0</b>	<b>PROPERTY AND ADJOINING SITE CHARACTERISTICS</b> .....	6
4.1	Location.....	7
4.2	Property Description.....	7
4.3	Adjacent Sites.....	8
<b>5.0</b>	<b>ENVIRONMENTAL SETTING</b> .....	8
<b>6.0</b>	<b>PROPERTY RECONNAISSANCE</b> .....	9
6.1	Property Inspection Observations .....	9
6.2	Adjacent Site and Vicinity Observations.....	10
6.3	Interviews.....	10
<b>7.0</b>	<b>REGULATORY AGENCY DATABASE REVIEW</b> .....	10
7.1	Government Databases Searched .....	11
7.2	Subject Property Database Summary.....	15
7.3	Adjacent and Nearby Sites Database Summary .....	15

<b>8.0</b>	<b>PROPERTY HISTORY/LAND USE REVIEW .....</b>	<b>17</b>
8.1	Historical Topographic Maps .....	17
8.2	Historical Aerial Photographs .....	17
8.3	Sanborn Fire Insurance Maps .....	19
8.4	City Directory Search .....	20
8.5	Environmental Lien Search .....	20
8.6	Vapor Encroachment Screen .....	21
8.7	Agency Records Review .....	21
8.8	Synopsis of Previous Environmental Investigations .....	23
<b>9.0</b>	<b>CONCLUSIONS AND OPINIONS .....</b>	<b>22</b>
<b>10.0</b>	<b>PROFESSIONAL CREDENTIALS .....</b>	<b>23</b>
<b>11.0</b>	<b>REFERENCES.....</b>	<b>25</b>

**FIGURES**

- Figure 1 - Site Location Map
- Figure 2 - Property and Area Map
- Figure 3 - Historical Topographic Maps
- Figure 4 - Historical Aerial Photographs

**APPENDICES**

- Appendix A - Photographs of Property & Vicinity
- Appendix B - Current Owner Responses to Interview Questions and Chicago Title Company Preliminary Title Report
- Appendix C - EDR Environmental Radius Map Report
- Appendix D - Sanborn Map Findings, City Directory Search, Environmental Lien Search, & Vapor Encroachment Screen
- Appendix E - Select File Review Documentation

**PHASE I  
ENVIRONMENTAL SITE ASSESSMENT REPORT**

**Mobile Home Park and Undeveloped Parcel  
4343 and 4371 E. Live Oak Avenue  
Arcadia, California**

**1.0 EXECUTIVE SUMMARY**

In February 2017, a Phase I Environmental Site Assessment (Phase I ESA), consistent with American Society for Testing Materials (ASTM) Standard E1527-13, was performed for the mobile home park located at 4343 Live Oak Avenue and adjoining undeveloped parcel at 4371 E. Live Oak in Arcadia, California (the Property, see **Figure 1** – Property Location Map).

Identified as County of Orange Assessor Parcel Numbers (APNs) 8511-018-012 and 8511-018-015, the Property totals 3.59 +/- acres. The 2.92 +/- acre irregularly-shaped Property parcel at 4343 E. Live Oak is currently developed with Live Oak Mobile Home Park, consisting of approximately 55 modular units, a laundry room, and a pool. Research performed during this investigation indicates that the mobile home park has occupied the parcel since at least 1964, preceded by undeveloped land dating back to 1928, the oldest records researched. The 0.67 +/- acre irregularly-shaped Property parcel at 4371 E. Live Oak is currently undeveloped and has been since the late 1980s. Historical research indicates that a restaurant operated on the Property from approximately 1952 to the mid-1980s, preceded by vacant land dating back to 1928, the oldest records researched.

On February 8, 2017, The Reynolds Group (TRG) conducted an inspection of the Property and vicinity and took photographs. No adverse environmental conditions were observed during the inspection, nor were any discovered in historical research of the Property addresses. A few spray painted and/or staked markers identified with boring numbers were noted on the Property during the physical inspection. According to the current Property owner, the markers are proposed geophysical boring locations related to possible future Property development.



The Property lies in a mixed commercial and residential area of Arcadia. No apparent issues of environmental concern were visible at sites adjacent to the Property or in the immediate vicinity. A few sites in the general area are listed in the historical environmental database report, however, they are not considered environmental concerns to the Property for reasons detailed in Section 7.3 of this report, including distance and/or direction from the Property and regulatory closure.

Based on historical research and the Property reconnaissance, no recognized environmental conditions (RECs) were identified at the Property or in the immediate vicinity. As such, no additional environmental investigation of the Property appears warranted at this time.

## **2.0 INTRODUCTION**

### **2.1 Purpose**

TRG was contracted by Bayer Management (the Client) to perform the Phase I ESA at the Property, as due diligence for potential redevelopment, sale, refinance support, and/or environmental insurance.

The purpose of the Phase I ESA was to identify any RECs at the Property. The Phase I ESA was performed using generally accepted Phase I ESA industry standards in accordance with ASTM E1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. In this report, and as defined by the ASTM, a REC is “the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property due to release to the environment; under conditions indicative of a release to the environment or under conditions that pose a material threat of future release. De minimis conditions are not recognized environmental conditions.”

## 2.2 Scope of Work

The following scope of work was performed to accomplish the Phase I ESA objectives:

- Visual Reconnaissance – A visual evaluation of the Property was conducted in readily accessible areas to identify RECs. Additionally, visual observations of adjoining properties were made from the vantage point of the subject Property as well as from public right-of-ways to determine the potential impact of these sites on the subject Property.
- Interviews – Verbal or written interviews with individuals knowledgeable and familiar with the Property.
- Records Review – Available environmental reports, agency records, appropriate permits, and historical aerial photographs of the subject Property and surrounding areas were reviewed.
- Agency Document Review – Appropriate regulatory agencies were contacted for information regarding any hazardous materials use, storage, and/or releases at the Property.
- Published Database Review – Reviewed published governmental agency databases to identify sites within ASTM-specified radii of the subject Property with a reported environmental concern or incident. TRG subcontracts the government agency database search to Environmental Data Resources, Inc. (EDR).
- Report Preparation – Prepare a summary report of the Phase I ESA work.
- Environmental Professional – All work associated with the project was performed by an environmental professional or under the supervision of an environmental professional.

## 2.3 Limitations and Exceptions

Topics not explicitly discussed within this document should not be assumed to have been investigated, such as physical testing, other than any specifically detailed in this report. The work performed in conjunction with this study and data developed are intended as a description of available information on the dates and at the locations described. This report does not warrant against future operations or conditions, nor does it warrant against:

Operations that are not in evidence from visual observations or search of published agency records, or facts that were concealed, withheld, or not fully disclosed at the time the reconnaissance was conducted.

- Conditions that could only be determined by physical sampling or intrusive testing.
- Conditions or locations other than the Client-provided subject Property address and/or legal parcel description(s).

This report summarizes Phase I ESA work conducted by TRG in February 2017 at the subject Property. Although conditions at neighboring sites may impact the subject Property and, to the extent they were identified and included in the subject Property evaluation, this report does not serve as an assessment of sites other than the subject Property.

The conclusions and opinions presented are based upon the scope of work outlined in this report. Evaluation of potential issues such as geotechnical soil conditions, air quality, flood plain information, seismic conditions, asbestos-containing materials, mold, radon, lead-based paint, lead in drinking water and wetlands are not required by ASTM E1527-13 standards and, thus, were not included in the scope of services. TRG makes no warranties or guarantees as to the accuracy or completeness of information obtained from, or compiled by others. Information may exist beyond the scope of this investigation. Additional information not found or available to TRG at the time of report writing may result in a modification of the conclusions and opinions presented. This report is not a legal opinion.

#### 2.4 Reliance

The Phase I ESA was performed for the exclusive use of the Client and its investors, assignees, designees, and successors (collectively “Authorized Parties”). These Authorized Parties intend to rely upon this report as an assessment of the existing environmental condition of the subject Property. TRG recommends that any Authorized Party intending to rely upon the report independently determine whether the scope of services meets their expectations.

TRG's professional services were performed using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable environmental professionals. No other warranty, expressed or implied, is made as to the professional opinions described in this report. TRG is not responsible or liable for any claims that are associated with the interpretation of the available information. Additionally, TRG is not responsible for any claims from third parties not associated with the Client, unless this report is assigned in its entirety to a party acceptable to TRG.

TRG exercised usual and customary professional care in its efforts to assess property environmental law/code/regulation compliance. However, due to the existence of literally thousands of laws, codes, and regulations pertaining to the environment, TRG cannot provide a definitive opinion concerning compliance with all laws/codes/regulations.

## 2.5 Proprietary Notice

This document and its contents are privileged and confidential information and should not be duplicated or copied under any circumstances without the expressed permission of TRG. Any unauthorized reuse of TRG reports or data will be at the unauthorized user's sole risk and liability.

## 3.0 **USER PROVIDED INFORMATION**

### 3.1 Reason for Performing the Phase I ESA

According to Daniel Bayer, representing the current Property owner (Live Oak Community LLC for 4343 E. Live Oak and Live Oak 4371 LLC for 4371 E. Live Oak), the work was performed as internal due diligence only ("For Informational Purposes", see **Appendix B** – Owner Response to Interview Questions).

### 3.2 Title Records and Property Use Limitations

The Client elected to have TRG perform the ASTM-required environmental lien search. As such, TRG obtained deed related information from Environmental Data Resources (EDR) as part of the Environmental Lien Search (see **Appendix D**), based on the property APNs. Lien Search results show no Property use limitations at either address. The current Property owner of 4343 E. Live Oak is shown on the Lien Search as “Live Oak Community Park LLC, as received from “Dan Marc Bayer, Trustee of the Raye S. Bayer Q.T.I.P. Trust Dtd 1/4/03” in a Quitclaim Deed dated September 8, 2004. The current Property owner of 4371 E. Live Oak is shown on the Lien Search as “Live Oak 4371 LLC” as received from “Judy Evelyn Bayar, Successor Trustee of the Bayer Family Trust dated January 25, 1993” in a Grant Deed dated February 1, 2017.

### 3.3 Value Reduction for Environmental Issues

With reference to the sale price versus fair market value of the subject Property, according to Daniel Bayer, representing the current Property owners, in his interview response (see **Appendix B**), this issues is not applicable to the Property since the Phase I is being performed for internal due diligence only and the Property is not for sale at this time. Based on findings of this Phase I ESA, there is no justification for value reduction for environmental issues since no RECs were identified during this investigation.

## 4.0 **PROPERTY AND ADJOINING SITE CHARACTERISTICS**

**Figure 1** shows the Property location, **Figure 2** is a plot plan of the Property, **Figure 3** includes historical topographic maps of the area, and **Figure 4** consists of historical aerial photographs of the vicinity. Photographs of the Property and the immediate area by the Consultant in February 2017 are included in **Appendix A** of this report. The Property’s legal description is provided in the Environmental Lien Search portion of **Appendix D**.

#### 4.1 Location

The Property is located in a mixed commercial and residential area of Arcadia, at the north side of E. Live Oak Avenue between Peck Road to the east and Mayflower Avenue to the west. Area landmarks include Irwindale Speedway and a large rock quarry approximately ½ mile to the east, Peck Road Park ½ mile to the southwest, and Santa Anita Race Track approximately 2½ miles northwest of the Property.

#### 4.2 Property Description

- 4343 E. Live Oak - This area of the Property consists of an irregularly-shaped 2.92 +/- acre parcel (APN 8511-018-012). Cinder block walls bind the parcel on all sides. Access to the is gained from two driveway entrances at the south side off E. Live Oak Avenue, and one at the west side off Mayflower Avenue. Most of the parcel is occupied by single and double-wide mobile homes (approximately 55) mounted on concrete pads, except for a swimming pool at the south-center area and a laundry room at the north-center area. Roads inside the mobile home park are asphalt paved with a concrete culvert down the center. Landscape at the Property is minimal and consists of a few trees and shrubs.
- 4371 E. Live Oak - This area of the Property consists of an irregularly-shaped 0.67 +/- acre undeveloped parcel (APN 8511-018-015). Cinder block walls bind the parcel at the north, east, and west sides, and chain-linked fencing at the south side. A narrow planter runs along the east Property boundary. At the time of inspection, the parcel appeared recently tilled.

Potable water, sewer services, and trash disposal for the Property are provided by the County of Los Angeles. Natural gas is supplied by Southern California Gas Company, and electrical service by Southern California Edison.

### 4.3 Adjacent Sites

The Property is adjoined at the north and east by single family residential neighborhoods, at the southwest by an acupuncture office and a 7-11 convenience store, and at the far west, west of Mayflower Avenue, by offices and residential apartments. To the south, south of E. Live Oak, is a combined gas station/car wash/convenience store (closed at the time of inspection), a retail mattress store, and a flooring supplier, followed further south by residential homes and a large auto salvage operation (see **Figure 2**).

## 5.0 ENVIRONMENTAL SETTING

The subject Property lies at an elevation of approximately 350 feet above mean sea level on land that slopes in a southwesterly direction (see **Figure 3** – Topographic Maps). According to information obtained from Geotracker ([geotracker.swrcb.ca.gov](http://geotracker.swrcb.ca.gov), Global ID T0603705010), the Property is located on the southeastern portion of the San Gabriel Valley. The San Gabriel Valley is bound by the San Gabriel Mountains on the north, the San Jose Hills on the southeast and east, and the northern Puente Hills on the south. Nearby faults include the Sierra Madre Fault, Duarte Fault, and the Lower Duarte Fault. These faults form the frontal fault system of the San Gabriel Mountains. Together they comprise the fault system that separates the high mountains on the north from the San Gabriel Valley on the south. Based on investigations performed in the general vicinity, lithologies near the Property consist of silt from just below surface to approximately 12 ft bgs underlain by sand and gravelly sand between approximately 12 ft bgs to approximately 30 to 32 ft bgs. Below this, very dense sand and gravel, is encountered from approximately 30 to 40 ft bgs.

The Property is located in the northeastern block of the Los Angeles Basin. Alluvial and stream terrace deposits underlie the area in excess of 200 feet thick overlying the Fernando Formation. The Fernando Formation has two members, the Upper Fernando member and the Lower



Fernando member. The Upper Fernando Formation consists of marine sandstone, siltstone, and claystone. Pebbly sandstone and conglomerates are found near the base. The Lower Fernando Formation consists of marine fine to coarse grained silty sandstone, siltstone, and interbedded sandy conglomerates. According to Los Angeles County Department of Public Works (LADPW) records, depth to groundwater in the Property vicinity exists at approximately 156 feet in LADPW Well 4198R when last measured in October 2015 (ref: dpw.lacounty.gov).

## **6.0 PROPERTY RECONNAISSANCE**

### **6.1 Property Inspection Observations**

On February 8, 2017, a representative of TRG conducted an inspection of the Property. Weather conditions were cloudy, cool, and breezy. Property photographs are included in **Appendix A**. The inspection was performed from the southeast corner to the northwest moving in a large grid pattern. The subject Property is described in detail in Section 4.2 of this report.

No hazardous chemical use, storage, dumping, or disposal was noted at the Property.

No wells, underground storage tanks, hydraulic lifts, clarifiers, or other potentially hazardous anomalies were observed. A few spray-painted markers and stakes with borings numbers existed on the Property at the time of inspection. According to a representative of the current Property owners, the markers are proposed geophysical boring locations related to possible future Property development.

No environmentally hazardous leaks or spills were observed during the inspection.

No electrical transformers were observed on the Property.

No pungent or noxious air emissions were noted during the Property inspection.

No pits, ponds, lagoons, other standing water or wetlands were observed on the Property during the inspection.

## 6.2 Adjacent Site and Vicinity Observations

Adjacent sites are described in Section 4.3 of this report. No obvious issues of environmental concern were noted during the adjacent site inspections, as viewed from public right of ways. Diesel dispensers were observed at the adjacent south gas station/car wash/convenience store (4332 E. Live Oak). Although this site had two former leaking underground storage tank cases with the Los Angeles Regional Water Quality Control Board ([www.geotracker.swrcb.gov](http://www.geotracker.swrcb.gov), Global ID T0603705312 and T0603786230), both were “soils only” cases and both received regulatory closure, one in 1999 and one in 2005. As such, the 4332 E. Live Oak site is not a concern to the subject Property at this time. A few other sites further out from the Property are listed in the Environmental Radius Map Report (see Section 7.1 and **Appendix C**), however, none are considered issues of concern to the Property for reasons including distance and direction from the Property and regulatory closure.

## 6.3 Interviews

A list of standard due diligence questions was provided to Daniel Bayer, representing the current Property owners, regarding the Property’s environmental history. In his responses, Mr. Bayer stated that he was unaware of any existing or historical environmental hazards at the Property. The completed questionnaires executed by Mr. Bayer are provided as **Appendix B** of this report.

## 7.0 REGULATORY AGENCY DATABASE REVIEW

TRG retained EDR to provide a list of facilities within the Property vicinity that are currently under review, management, or notification by a regulatory agency as indicated in an EDR Radius Map with GeoCheck Report (see **Appendix C**). The following presents the regulatory files reviewed.

The results of the subject Property and surrounding site listings are summarized in Sections 7.2 and 7.3.

Depending on the database, and in compliance with ASTM Standards, the approximate search distance includes only the subject Property and other sites between 0.25 and 1.0 miles from the subject Property.

#### 7.1 Government Databases Searched

**The United States Environmental Protection Agency (EPA) National Priority List (NPL) and Delisted NPLs:** The NPL is the EPA's database of uncontrolled or abandoned hazardous waste sites identified for priority remedial actions under the Superfund program. A site, to be included on the NPL, must either meet or surpass a predetermined hazard ranking system score, or be chosen as a state's top-priority site, or meet all three criteria of: 1) the US Department of Health and Human Services issues a health advisory recommending that people be removed from the site to avoid exposure; 2) EPA determines that the site represents a significant threat, and 3) EPA determines that the remedial action is more cost-effective. Delisted NPLs are those sites that may be deleted from the NPL where no further response is appropriate as determined by the EPA. The required minimum search distance is one mile from the Property for NPLs and ½ mile for Delisted NPLs.

**Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) and CERCLIS No Further Remedial Action Planned (NFRAP):** The CERCLIS database contains information on potentially hazardous waste sites that have been reported to the US EPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the CERCLA. CERCLIS contains sites which are either proposed to or on the NPL and sites which are in the screening and assessment phase for possible inclusion on the NPL. CERCLIS NFRAP contains information pertaining to facilities that have been removed from the CERCLIS database due to the absence of contamination following further investigation, sufficient remedial action of any contamination, or where contamination is not serious enough to warrant federal Superfund

action or NPL consideration. The required minimum search distance for both CERCLIS and CERCLIS NFRAP is ½ mile from the subject Property.

**Resource Conservation and Recovery Act (RCRIS):** is a database which includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The list is developed and maintained by the EPA. The purpose of this listing is to summarize registration information and does not imply that contamination has occurred on the property, but does identify potential sources of contamination. The RCRIS database is divided into small quantity generator (SQG) sites, large quantity generator (LQG) sites, and transfer, storage and disposal (TSD) sites. The required minimum search distance for RCRIS SQG and LQG is limited to the subject Property and adjoining sites, and is ½ mile for RCRIS TSD sites.

**Institutional and Engineering Controls (IECs):** IECs include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on the Property. Deed restrictions are generally required as part of the institutional controls and 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 affect human health. The search includes only the subject Property.

**Emergency Response Notification System (ERNS):** This listing is a database of incident notification information regarding incidents of reported releases of oil and hazardous substances. The search includes only the subject Property.

**Consent:** This database lists addresses involved in major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund). It is release periodically by the United States District Courts after settlement by the parties to the litigation matters. The search includes only the subject Property.

**Records of Decision (RODs):** RODs documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup. The required minimum search radius for RODs is one mile from the subject Property.

**Mines:** The Mines database is a record of mine locations maintained by the U.S. Department of Labor, Mine Safety, and Health Administration. The required minimum search radius is ¼ mile from the subject Property.

**State Hazardous Waste Sites (SHWS):** The SHWS database is maintained by the DTSC and is the State's equivalent to CERCLIS. The required minimum search distance from the subject Property is one mile.

**Groundwater Contamination Inventory (GWCI):** The GWCI is an inventory of all groundwater contamination cases. The required minimum search radius for this database is ½ mile from the Property.

**Solid Waste Facilities/Landfills (SWF/LF):** This is a database that is maintained by the Integrated Waste Management Board and identifies permitted solid waste facilities or landfills. These facilities may be active, inactive, or closed facilities, or open dumps that failed to meet RCRA criteria for solid waste landfills or disposal facilities. The required minimum search distance for the SWF/LF database is ½ mile from the Property.

**Underground Storage Tanks (USTs) and Tribal USTs:** is a list of registered underground storage tanks and those on Indian Land. The database is maintained by local agencies, most notably the fire departments, and contains a comprehensive listing of all registered USTs. The required minimum search distance is limited to the subject Property and adjacent sites for both USTs and Tribal USTs.

**Leaking Underground Storage Tanks (LUST) and Tribal LUST:** This is a list that compiles the State Water Resources Control Board (SWRCB) and Regional Water Quality Control Board (RWQCB)

identified facilities that have had unauthorized releases from USTs and those on Indian Land. The required minimum search distance for both LUST and Tribal LUST cases is ½ mile from the subject Property.

**Above Ground Storage Tanks (ASTs):** The AST database is maintained by the RWQCB and contains listings of registered ASTs. The required search distance for this database is limited to the subject Property and adjacent sites.

**Spill, Leaks, Investigations, and Clean-Ups (SLIC)** is a database showing cases impacted by environmental incidents other than USTs. The required minimum search radius for the SLIC database is ½ mile from the subject Property.

**Land Use Controls (AUL):** This database lists sites in California that have institutional controls or engineering controls in place. The search requirement includes the subject Property only.

**Voluntary Cleanup Program (VCP):** The VCP is a listing of facilities and/or sites registered on the voluntary cleanup program database. Upon completion of the negotiated work in the VCP contract agreed upon by the DTSC and the non-responsible party, the non-responsible party received State Superfund liability protection. The required minimum search distance from the Property is ½ mile.

**Dry Cleaners** is a database listing dry cleaning facilities that have EPA ID numbers. The Dry Cleaning Facility Restoration Fund database is used to access, prioritize, and clean up contaminated registered dry-cleaning sites. The minimum required search distance for this database is ¼ mile from the subject Property.

**Brownfields:** The Brownfields is a component of the VCP, which allows a non-responsible party to acquire a contaminated property with State Superfund liability protection for existing contamination by agreeing to perform an environmental assessment and/or remediation. The required minimum search radius for the Brownfields database is ½ mile from the Property.

**National Pollutant Discharge Elimination System (NPDES):** The NPDES database maintains a database of waste water treatment facility locations. The EDR search radius for this database is limited to the subject Property. The required minimum search distance is limited to the subject Property.

**Airs:** This is a database listing permitted air facilities. The required minimum search distance is limited to the subject Property.

The aforementioned databases and search distances include those that are required by ASTM standards. Other supplemental database information is available in the full environmental disclosure report provided in **Appendix C**.

## 7.2 Subject Property Database Summary

There are no listings in the EDR database report for the Property address.

## 7.3 Adjacent and Nearby Sites Database Summary

The following summary includes sites adjacent to or near the subject Property within the ASTM E1527-13 search radii. Where available, information from the EDR database report was updated using the State's Geotracker website ([geotracker.swrcb.ca.gov](http://geotracker.swrcb.ca.gov)). A review of the EDR database report by TRG is summarized below.



Database	Business Name/Address	Association with Listing	Concern to Property?
RCRA LQG	<ul style="list-style-type: none"> <li>Pick A Part Auto Dismantling – 3333 S. Peck Road</li> </ul>	Generate and dispose of hazardous wastes.	No. No violations reported.
ENVIROSTOR	<ul style="list-style-type: none"> <li>Kardashian and Max – No address but &gt; ½ mile southeast of Site.</li> <li>Superior Fast Freight – 600 E. Live Oak.</li> </ul>	Under investigation or evaluation by the DTSC.	No. Kardashian is low priority former landfill issue nearly one mile away from the Property, and Superior Fast Freight is suspect asbestos impact, also nearly one mile away from the Property.
SWF/LF	<ul style="list-style-type: none"> <li>Five Different Sites within ½ mile.</li> </ul>	Former Landfills	No. None are adjacent and all are closed with no issues of concern identified.
LUST HIST CORTESE SWEEPS UST	<ul style="list-style-type: none"> <li>G&amp;C Lorena Fuel – 4332 E. Live Oak (adjacent southwest).</li> <li>Pick-A-Part – 4414 E. Live Oak/3333 Peck Road (Approx. 300' south).</li> <li>Plus five other sites further away.</li> </ul>	Former leaking USTs	No. Six of the seven have received regulatory closure as having sufficiently cleaned impacted soil and/or groundwater, including the adjacent southwest G&C case. The Pick-A-Part is “open”, however, it is a soils only case located 300 +/- feet from the Property and, thus, is not an issue of concern to the subject Property.
SLIC	<ul style="list-style-type: none"> <li>Landmark Materials – 242 Live Oak.</li> <li>Chicago Park – 5700 Peck</li> </ul>	Spill and/or leak of chlorinated hydrocarbons	No. Landmark is greater than ¼ mile from the subject Property, and Chicago Park has been issued a “no further action required” letter from the agency for having sufficiently cleaned spill/leak.
EDR HIST CLEANERS	<ul style="list-style-type: none"> <li>George’s Laundrette – 4269 E. Live Oak.</li> </ul>	Former Dry Cleaning Facility	No. Not on SLIC list above as having experienced a leak or spill of chemicals.

## 8.0 PROPERTY HISTORY/LAND USE REVIEW

### 8.1 Historical Topographic Maps

Historical topographic maps provided by EDR were also reviewed. Maps were available periodically from 1894 to 2012. The topographic gradient on all maps, where visible, is shown in a southwesterly direction. Main features of the earlier maps (1894 to 1941) are the San Francisquito Formation south and east of the Property and the Rio Honda Wash to the south. Maps from 1953 to 1995 show a structure on the Property (former restaurant) and adjoining east Drive-In Theatre. Large gravel pits are shown further east of the Property, east of Peck Road. The most recent map in 2012 shows the Rio Honda Wash, the Sawpit Wash, and the Santa Anita Wash, approximately ¼ mile to the south, east, and west of the Property, respectively, as well as several water reservoirs further to the east. Historical Topographic Maps as provided by EDR are included as **Figure 3** of this report.

### 8.2 Historical Aerial Photographs

Aerial photographs of the Property and vicinity, as provided by EDR, were reviewed in order to ascertain historical land uses that may have been responsible for the generation/or storage of potentially hazardous materials at and near the Property. Copies of the aerial photographs are provided as **Figure 4** of this report.

#### 1928 and 1938

The subject Property is undeveloped, as is most of the general area. East Live Oak and Peck Road are visible adjoining south and 500' +/- to the east.

### 1948

There are no visible changes to the Property, however, residential development is underway adjacent north of the Property and to the south, south of E. Live Oak. Large gravel pits appear east and south of the Property, east of Peck Road.

### 1952

4343 E. Live Oak remains undeveloped, however, an adjacent parcels to the southwest, at the northeast corner of E. Live Oak and Mayflower Avenue, has been developed with what appears to be a gasoline service station, based on its configuration. A T-shaped building appears on the 4371 E. Live Oak parcel and a drive-in theatre has been constructed adjacent east of the Property. Adjoining north, south, and west sites remain undeveloped. The immediately vicinity of the Property to the west is dominated by residential housing.

### 1964, 1970, 1972, and 1983

Beginning in the 1964 photo, the mobile home park appears on the 4343 E. Live Oak parcel, as does the adjacent south gas station, south of E. Live Oak. There are no notable changes to the 4371 E. Live Oak parcel from the 1952 photograph. Areas further south-southwest show myriad small objects, likely vehicles associated with the auto salvage business that continues to operate today at 3333 Peck Road. Commercial development increases to the northeast, north and east of the drive-in theatre, adjacent east of the Property.

### 1989, 1990, and 1994

There are no visible changes to the 4343 E. Live Oak parcel. It remains developed with a mobile home park. The former restaurant on the 4371 E. Live Oak parcel no longer exists and that parcel is vacant. The suspect former service station at the northeast corner of E. Live Oak and Mayflower Avenue appears to have been removed and the parcel is redeveloped for commercial use.

### 2002

There are no notable changes to the Property and adjacent sites except that the former drive-in theatre to the east is being replaced with single family residential housing.

### 2005, 2009, 2010, and 2012

The Property and area appear much like today. Most of the Property is developed with a mobile home park (4343 E. Live Oak) except an undeveloped area at the southeast corner of the Property (4371 E. Live Oak). Commercial businesses operate adjoining southwest of the property and further south at the south side of E. Live Oak. Residential neighborhoods exists adjoining north and east of the Property. Generally, the area can be characterized as mixed residential and commercial use. The commercial businesses operate primarily along E. Live Oak adjoining south of the Property and Peck Road to the east.

## 8.3 Sanborn Fire Insurance Maps

No Sanborn Fire Insurance Maps were available for the subject Property addresses through EDR (see **Appendix D**).

#### 8.4 City Directory Search

TRG also retained EDR to perform a City Directory Search. The complete City Directory as provided by EDR is included in **Appendix D** of this report.

- 4343 E. Live Oak - The only listings for 4343 E. Live Oak are in 1999 to 2013 showing Live Oak Mobile Home Park and/or personal names (indicating residential use). Nearby addresses on Live Oak Avenue and Mayflower include numerous individual names (residential use) adjacent north, Frontier Drive In (adjacent east), a restaurant/bar and furniture store (adjacent southeast, south of Live Oak), and a service station and smog repair (adjacent south, south of Live Oak).
- 4371 E. Live Oak - Just one listing is identified in the City Director for 4371 E. Live Oak in 1950 showing “The Frontier Drive In Arcadia”. Nearby addresses on Live Oak Avenue and Mayflower, include numerous individual names indicating residential use, Live Oak Mobile Home Park, a restaurant/bar, a furniture store, and a service station/smog repair (adjacent south, south of Live Oak).

#### 8.5 Environmental Lien Search

A search for environmental liens was performed for the Property addresses by EDR. No environmental liens or activity and use limitations currently exist for the subject Property (see **Appendix D**).

Lien Search results show the current Property owner of 4343 E. Live Oak as “Live Oak Community Park LLC, received from “Dan Marc Bayer, Trustee of the Raye S. Bayer Q.T.I.P. Trust Dtd 1/4/03” in a Quitclaim Deed dated September 8, 2004. The current Property owner of 4371 E. Live Oak is shown on the Lien Search as “Live Oak 4371 LLC” as received from “Judy Evelyn Bayar, Successor Trustee of the Bayer Family Trust dated January 25, 1993” in a Grant Deed dated February 1, 2017.

## 8.6 Vapor Encroachment Screen

A search for vapor encroachment at the Property was performed by EDR in accordance with ASTM Standard Practice for Assessment of Vapor Encroachment into Structures on Property Involved in Real Estate Transactions (E 2600-10). This screening assist parties seeking to meet the search requirements in Real Estate Transactions. The Property is not listed in the federal or state databases, suggesting no vapor intrusion risk at the Property. Adjacent sites and sites listed further out in the general area are not considered issues of concern to the Property for reasons detailed in Section 7.3. A vapor encroachment screen summary report is included in **Appendix D**.

## 8.7 Agency Records Review

Agency file review findings are summarized below. Select file review documentation is provided in **Appendix E**.

- *Los Angeles County Building Department (LACOB)* – TRG visited the City of Arcadia Building Department on February 8, 2017, to review building department records related to the Property addresses. The City referred TRG to the LACOB for permit coverage in the particular area of Arcadia where the Property lies. Available information for 4343 E. Live Oak included only one building permit to install a mobile home, dated August 3, 1982 (owner: Dan Bayer). Available information for 4371 E. Live Oak included an original building permit dated June 6, 1949 (owner: H.N. Barger), electrical and plumbing permits related to original construction of a restaurant, a septic system installation permit dated July 5, 1949, and a neon sign permit dated August 6, 1952.
- *Los Angeles County Department of Public Works (LADPW)* – TRG contacted the LADPW Environmental Programs Division (626-458-3517) on January 11, 2017, to inquire if any files existed for the Property addresses related to USTs or industrial waste. According to David at the LADPW, no files exist with that agency for the Property.

- *Los Angeles Regional Water Quality Control Board (LARWQCB)* – A request for file review was submitted by TRG to the LARWQCB (RB4-publicrecords@waterboards.ca.gov) for the subject Property addresses. In a January 23, 2017, emailed response, the LARWQCB stated that no files exist with that agency for the Property addresses.
- *State Water Resources Control Board Geotracker Web Site (geotracker.waterboards.ca.gov)* – The subject Property addresses are not listed on the Geotracker web site, nor are adjacent sites to the north, east, or west. The nearest cases shown on Geotracker are located to the south, south of E. Live Oak Avenue, at 4332 E. Live Oak (G&C/Arcadia Fuel, Global ID T06037053123/-230) and at 3333 Peck Road (Pic A Part, Global ID T0603704166). The G&C/Arcadia Fuel case has received regulatory closure and, therefore, is not considered an issue of concern to the Property. The Pic A Part case is still open, however, it is a soils only case at least 300 feet from the Property. Due to its “soils only” designation and its distance from the Property, the Pic A Part case is not an issue of concern to the subject Property.
- *Division of Oil, Gas, and Geothermal Resources (DOGGR, [www.conservation.ca.gov](http://www.conservation.ca.gov))* – TRG accessed the DOGGR web site to research oil well information at the Property. The map shows no oil wells on or near the Property. The nearest oil well (API Well #03705122/Andrus and Hutcheson Inc.) is located roughly one mile south-southwest of the Property. Given its distance from the Property, the well does not represent an issue of concern to the Property.
- *South Coast Air Quality Management District (SCAQMD)* – TRG made a public records request to the SCAQMD for the Property addresses on February 6, 2017. According to Stacey Walkowiak with the SCAQMD, no records exist for the Property.



## 8.8 Synopsis of Previous Environmental Investigations

No known previous environmental investigations have been performed at either Property parcel.

## 9.0 CONCLUSIONS & OPINIONS

In February 2017, a Phase I Environmental Site Assessment (Phase I ESA), consistent with American Society for Testing Materials (ASTM) Standard E1527-13 was performed for the Property located at 4343 E. Live Oak in Arcadia, California.

Based on historical research and the Property reconnaissance no recognized environmental conditions (RECs) were identified at or adjacent to the Property. It is the opinion of TRG, that no further environmental investigation of the Property is warranted at this time.

## 10.0 PROFESSIONAL CREDENTIALS

All work associated with this Environmental Site Assessment was performed by or under the direct supervision of F. Edward Reynolds, Jr. Mr. Reynolds has worked in the environmental industry for more than 25 years and holds several credentials including those of a Registered Environmental Property Assessor (#963067) and California Registered Civil Engineer (No. 38677). Mr. Reynolds meets the certification, licensing, education, and experience required under EPA's 40 CFR Part 312 for "Environmental Professionals". TRG, established in 1989, provides environmental consulting and contracting services.

Rosanne Fischer has worked in the environmental industry for more than 20 years. Ms. Fischer is a Registered Environmental Property Assessor (REPA No. 419564) and performs numerous Phase I Environmental Site Assessments each year. Ms. Fischer meets the certification, licensing, education, and experience required under EPA's 40 CFR Part 312 for "Environmental Professionals".

**THE REYNOLDS GROUP**

a California corporation by:



F. Edward Reynolds, Jr.  
California Registered Civil Engineer #38677



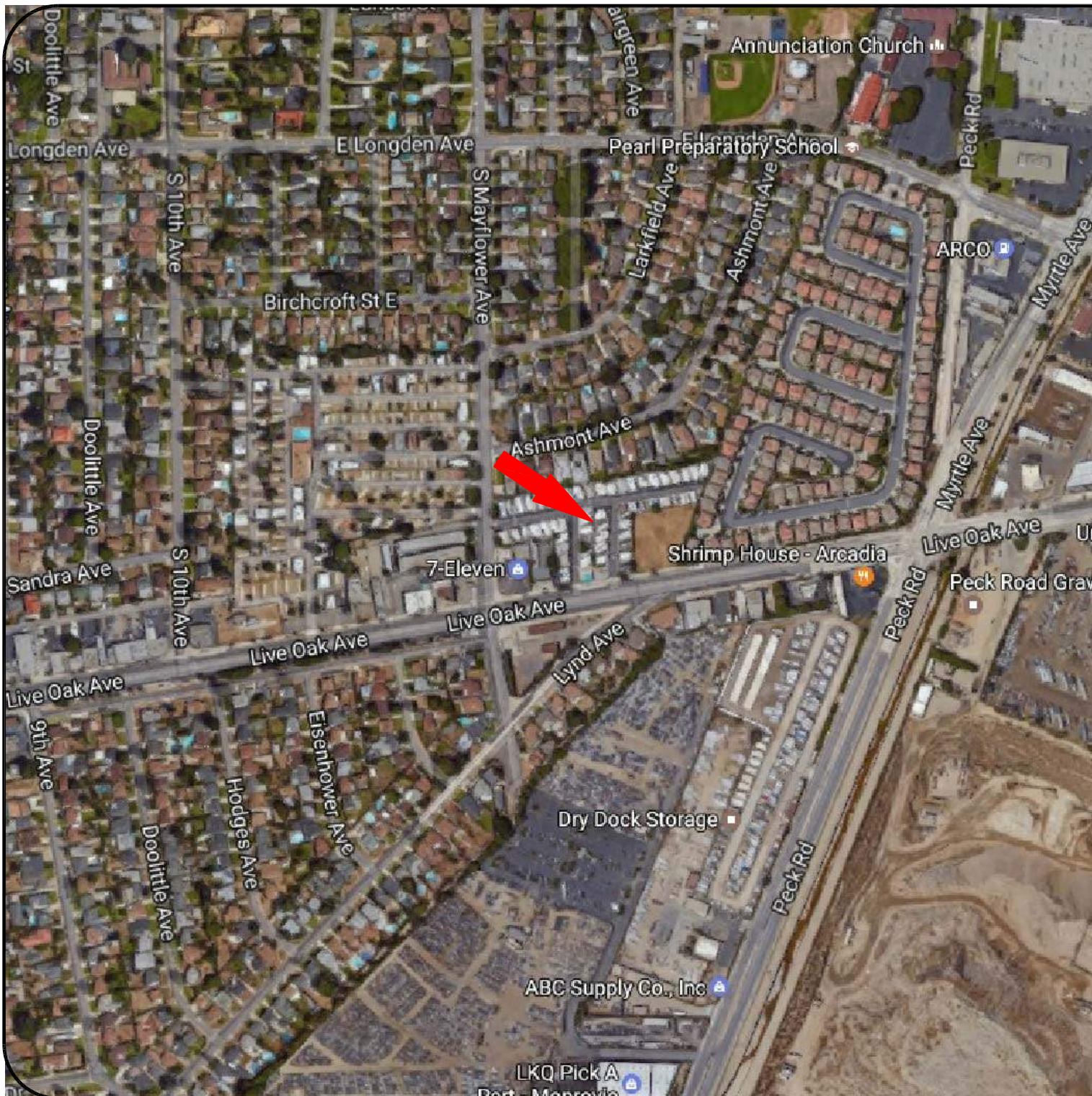
Rosanne Fischer, REPA #419564  
Project Manager

## 11.0 REFERENCES

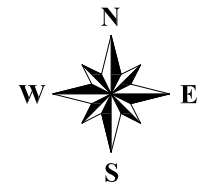
1. Environmental Data Resources, Inc., 6 Armstrong Road, 4<sup>th</sup> Floor, Shelton, Connecticut.
2. State Water Resources Control Board Geotracker Web Site at <http://geotracker.waterboards.ca.gov>.
3. Los Angeles County Building Department – 125 S. Baldwin Avenue, Arcadia, CA.
4. Los Angeles Regional Water Quality Control Board –R4-filereivew@waterboards.ca.gov
5. Division of Oil, Gas, and Geothermal Resources – [www.conservation.ca.gov](http://www.conservation.ca.gov)
6. South Coast Air Quality Management District – [publicrecordsrequests@aqmd.gov](mailto:publicrecordsrequests@aqmd.gov)
7. Los Angeles County Department of Public Works, Environmental Division – 900 S. Fremont Avenue, Alhambra, CA

## FIGURES





General Notes



\* ADAPTED FROM GOOGLE EARTH MAPS

Project Details

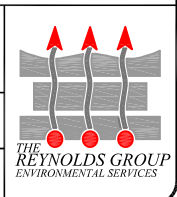
Name	Mobile Home Park & Vacant Lot
Address	4343 & 4371 E. Live Oak Arcadia, CA
Number	8318

Figure Details

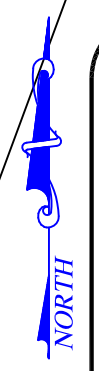
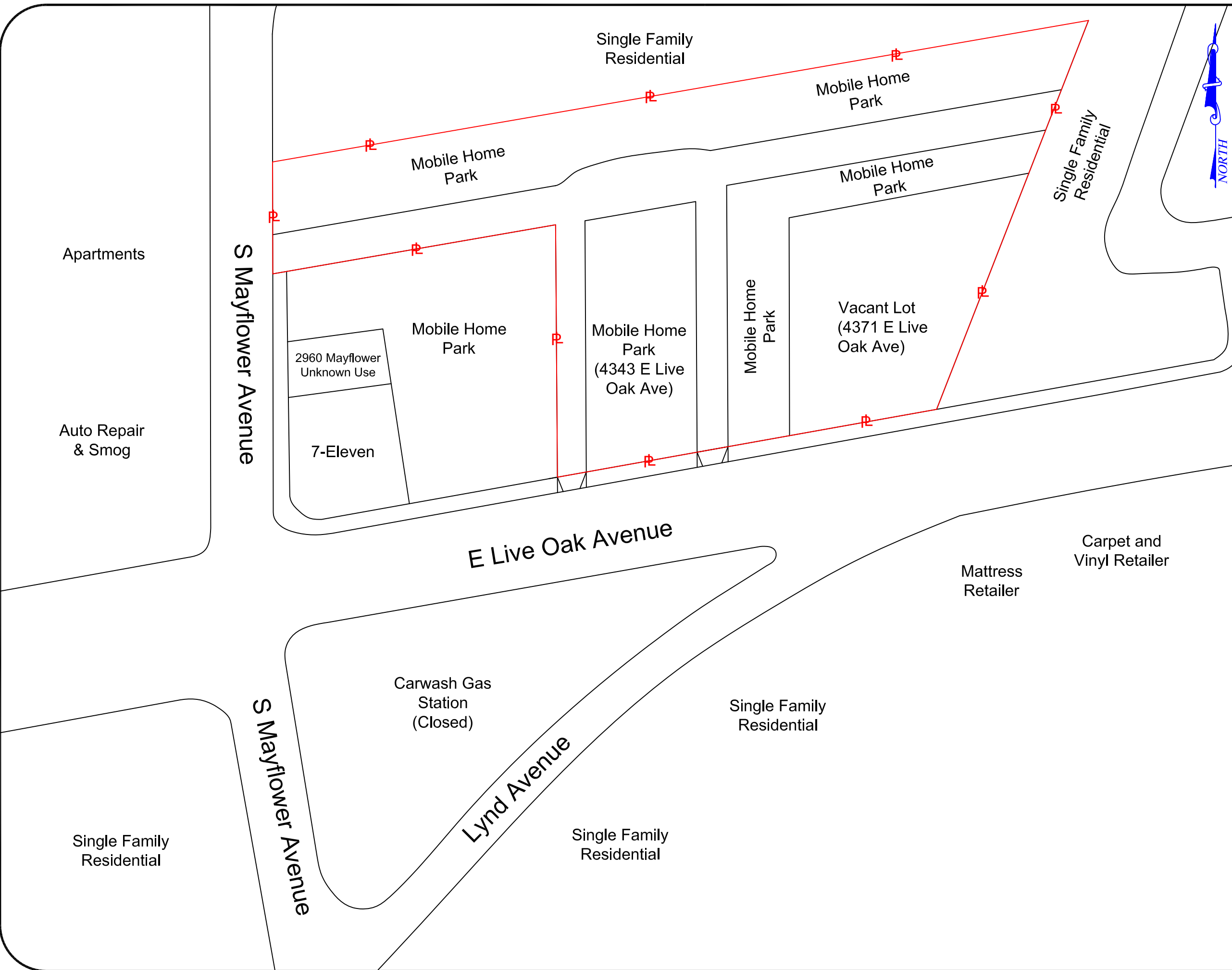
SITE LOCATION MAP	
Figure #	Figure 1
Revise Date	February 2017
Scale	Not to Scale

Company Information

Address	520 West 1st Street Tustin, CA 92780
Telephone	(714) 730-5397
Fax	(714) 730-6476







**General Notes**

☐ - Property Line

**Project Details**

Name  
Mobile Home Park & Undeveloped Parcel

Address  
4343 & 4371 E Live Oak Ave  
Arcadia, CA

Number  
8318

**Figure Details**

PROPERTY AND AREA MAP

Figure #  
Figure 2

Revise Date  
February 2017

0' 80'  
Approximate Scale

Scale  
1" = 80'

**Company Information**

Address  
520 West 1st Street  
Tustin, CA 92780

Telephone  
(714) 730-5397

Fax  
(714) 730-6476

THE REYNOLDS GROUP  
ENVIRONMENTAL SERVICES

Residential and Vacant  
4343 and 4371 E. Live Oak Avenue  
Arcadia, CA 91006

Inquiry Number: 4822613.4  
January 09, 2017

# EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

**FIGURE 3**



# EDR Historical Topo Map Report

01/09/17

**Site Name:**

Residential and Vacant  
4343 and 4371 E. Live Oak Av  
Arcadia, CA 91006  
EDR Inquiry # 4822613.4

**Client Name:**

The Reynolds Group  
520 West 1st Street  
Tustin, CA 92780  
Contact: Rosanne Fischer



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by The Reynolds Group were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

**Search Results:**

**P.O.#** 8318  
**Project:** 8318 Bayer Arcadia

**Coordinates:**

**Latitude:** 34.111187 34° 6' 40" North  
**Longitude:** -118.007772 -118° 0' 28" West  
**UTM Zone:** Zone 11 North  
**UTM X Meters:** 407054.08  
**UTM Y Meters:** 3774942.72  
**Elevation:** 353.00' above sea level

**Maps Provided:**

2012	1933
1994, 1995	1926, 1927, 1928
1988, 1991	1900, 1904
1981	1896, 1897
1972	1894
1966	
1953	
1939, 1941	

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## Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 2012 Source Sheets



El Monte  
2012  
7.5-minute, 24000



Mount Wilson  
2012  
7.5-minute, 24000



Azusa  
2012  
7.5-minute, 24000



Baldwin Park  
2012  
7.5-minute, 24000

### 1994, 1995 Source Sheets



El Monte  
1994  
7.5-minute, 24000  
Aerial Photo Revised 1978



Mt. Wilson  
1994  
7.5-minute, 24000  
Aerial Photo Revised 1986



Azusa  
1995  
7.5-minute, 24000  
Aerial Photo Revised 1994



Mount Wilson  
1995  
7.5-minute, 24000  
Aerial Photo Revised 1994

### 1988, 1991 Source Sheets



Mt. Wilson  
1988  
7.5-minute, 24000  
Aerial Photo Revised 1986



El Monte  
1991  
7.5-minute, 24000  
Aerial Photo Revised 1978

### 1981 Source Sheets



El Monte  
1981  
7.5-minute, 24000  
Aerial Photo Revised 1978



Baldwin Park  
1981  
7.5-minute, 24000  
Aerial Photo Revised 1978



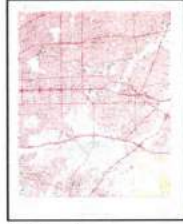
## Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1972 Source Sheets



Mt. Wilson  
1972  
7.5-minute, 24000  
Aerial Photo Revised 1972



El Monte  
1972  
7.5-minute, 24000  
Aerial Photo Revised 1972



Azusa  
1972  
7.5-minute, 24000  
Aerial Photo Revised 1972



Baldwin Park  
1972  
7.5-minute, 24000  
Aerial Photo Revised 1972

### 1966 Source Sheets



Baldwin Park  
1966  
7.5-minute, 24000  
Aerial Photo Revised 1964



Azusa  
1966  
7.5-minute, 24000  
Aerial Photo Revised 1964

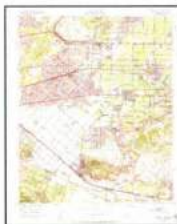


Mt. Wilson  
1966  
7.5-minute, 24000  
Aerial Photo Revised 1964



El Monte  
1966  
7.5-minute, 24000  
Aerial Photo Revised 1964

### 1953 Source Sheets



Baldwin Park  
1953  
7.5-minute, 24000  
Aerial Photo Revised 1952



Azusa  
1953  
7.5-minute, 24000  
Aerial Photo Revised 1952



Mt. Wilson  
1953  
7.5-minute, 24000  
Aerial Photo Revised 1952



El Monte  
1953  
7.5-minute, 24000  
Aerial Photo Revised 1952

### 1939, 1941 Source Sheets



Azusa  
1939  
7.5-minute, 24000



Sierra Madre  
1941  
7.5-minute, 24000

## Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1933 Source Sheets



Sierra Madre  
1933  
7.5-minute, 24000



Azusa  
1933  
7.5-minute, 24000

### 1926, 1927, 1928 Source Sheets



El Monte  
1926  
7.5-minute, 24000



Puente  
1927  
7.5-minute, 24000



Azusa  
1928  
7.5-minute, 24000

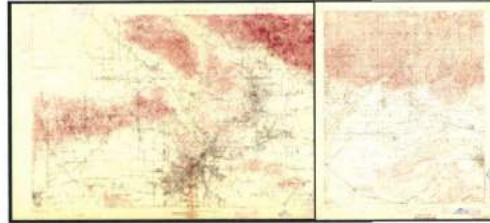


Sierra Madre  
1928  
7.5-minute, 24000

### 1900, 1904 Source Sheets



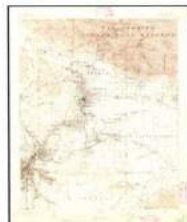
Pasadena  
1900  
15-minute, 62500



Los Angeles  
1900  
15-minute, 62500

Pomona  
1904  
15-minute, 62500

### 1896, 1897 Source Sheets



Pasadena  
1896  
15-minute, 62500



Pomona  
1897  
15-minute, 62500

## ***Topo Sheet Key***

---

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### **1894 Source Sheets**

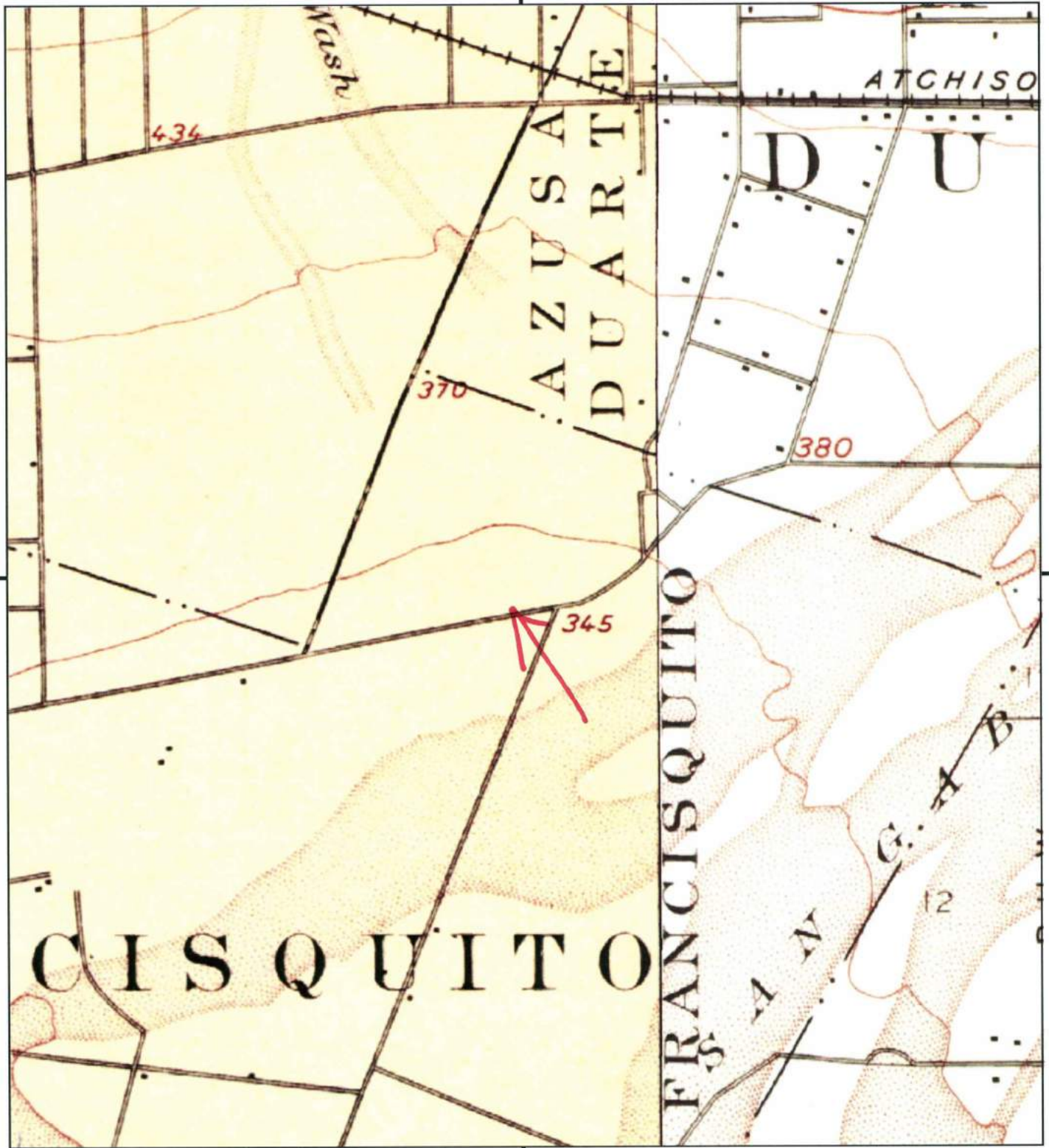


Pomona  
1894  
15-minute, 62500

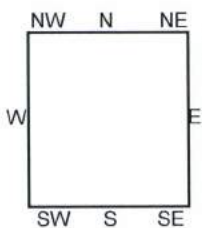


Los Angeles  
1894  
15-minute, 62500





This report includes information from the following map sheet(s).



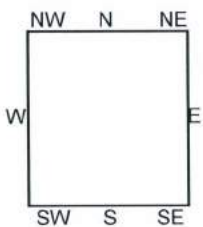
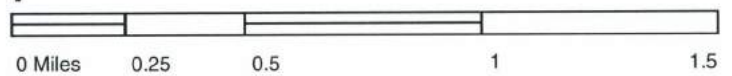
TP, Los Angeles, 1894, 15-minute  
E, Pomona, 1894, 15-minute

SITE NAME: Residential and Vacant  
 ADDRESS: 4343 and 4371 E. Live Oak Avenue  
 Arcadia, CA 91006  
 CLIENT: The Reynolds Group





This report includes information from the following map sheet(s).

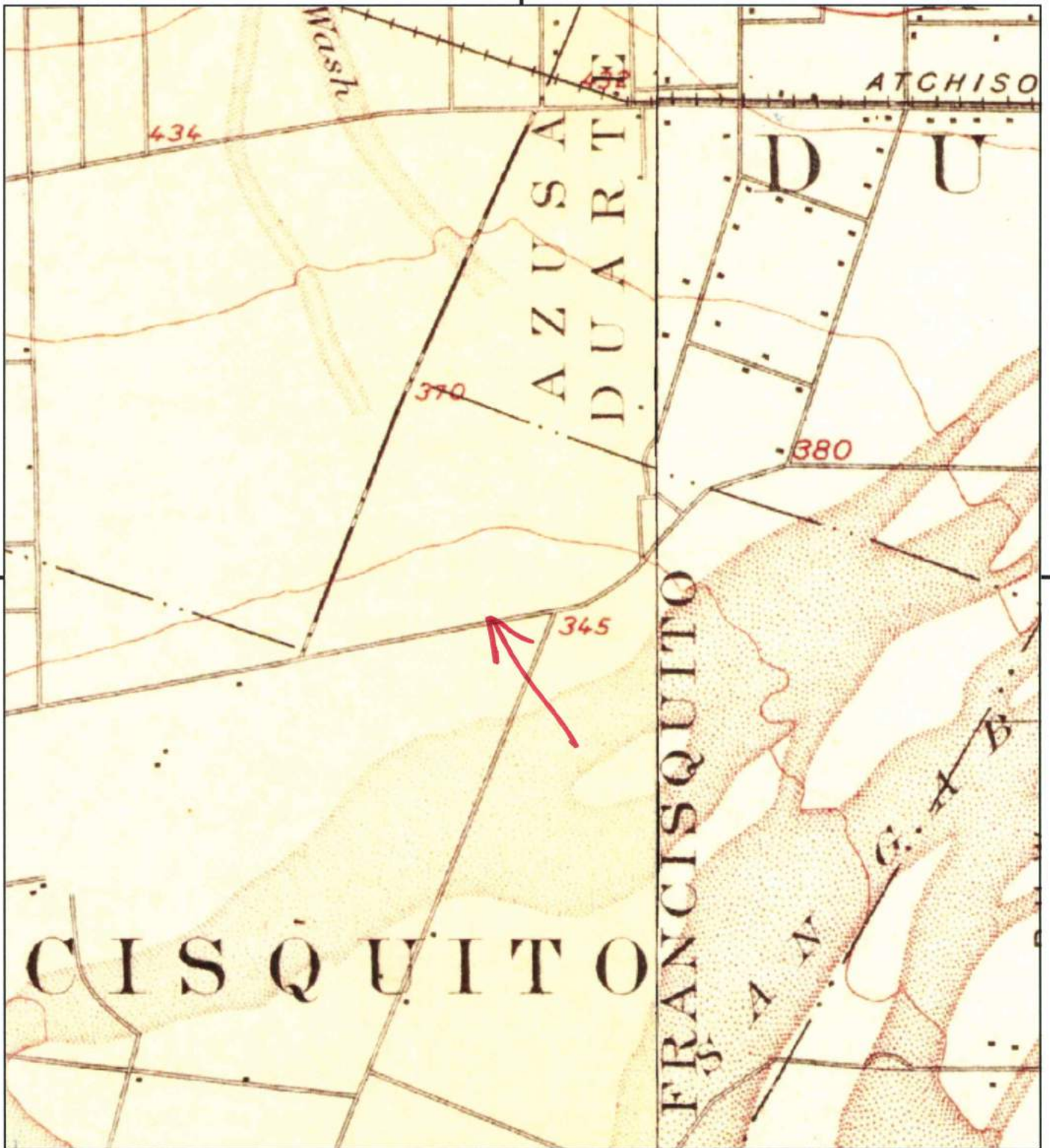


TP, Pasadena, 1896, 15-minute  
E, Pomona, 1897, 15-minute

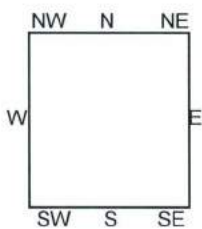
SITE NAME: Residential and Vacant  
ADDRESS: 4343 and 4371 E. Live Oak Avenue  
Arcadia, CA 91006  
CLIENT: The Reynolds Group







This report includes information from the following map sheet(s).

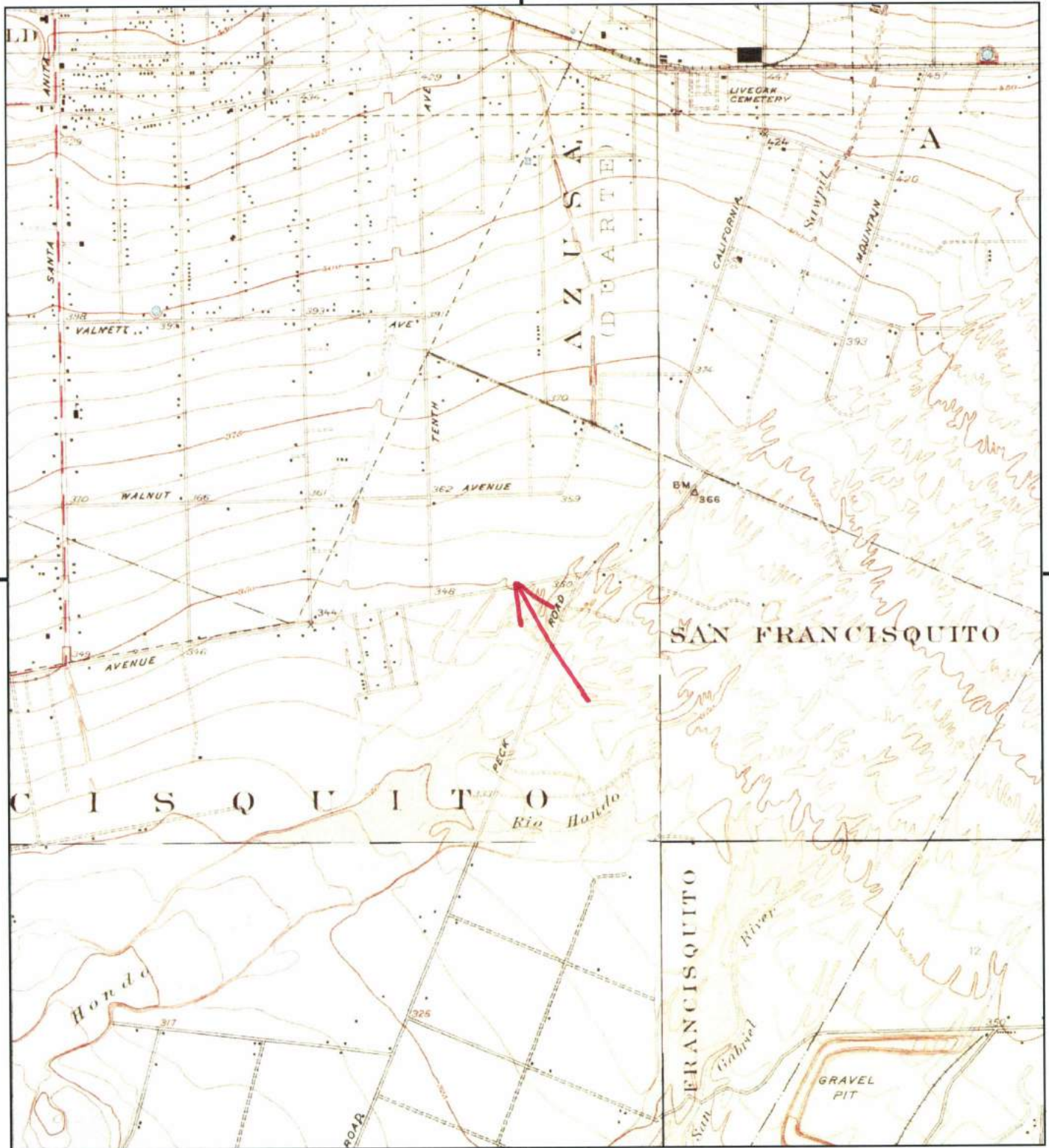


TP, Pasadena, 1900, 15-minute  
TP, Los Angeles, 1900, 15-minute  
E, Pomona, 1904, 15-minute

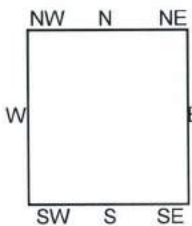
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ADDRESS: 4343 and 4371 E. Live Oak Avenue  
Arcadia, CA 91006  
CLIENT: The Reynolds Group







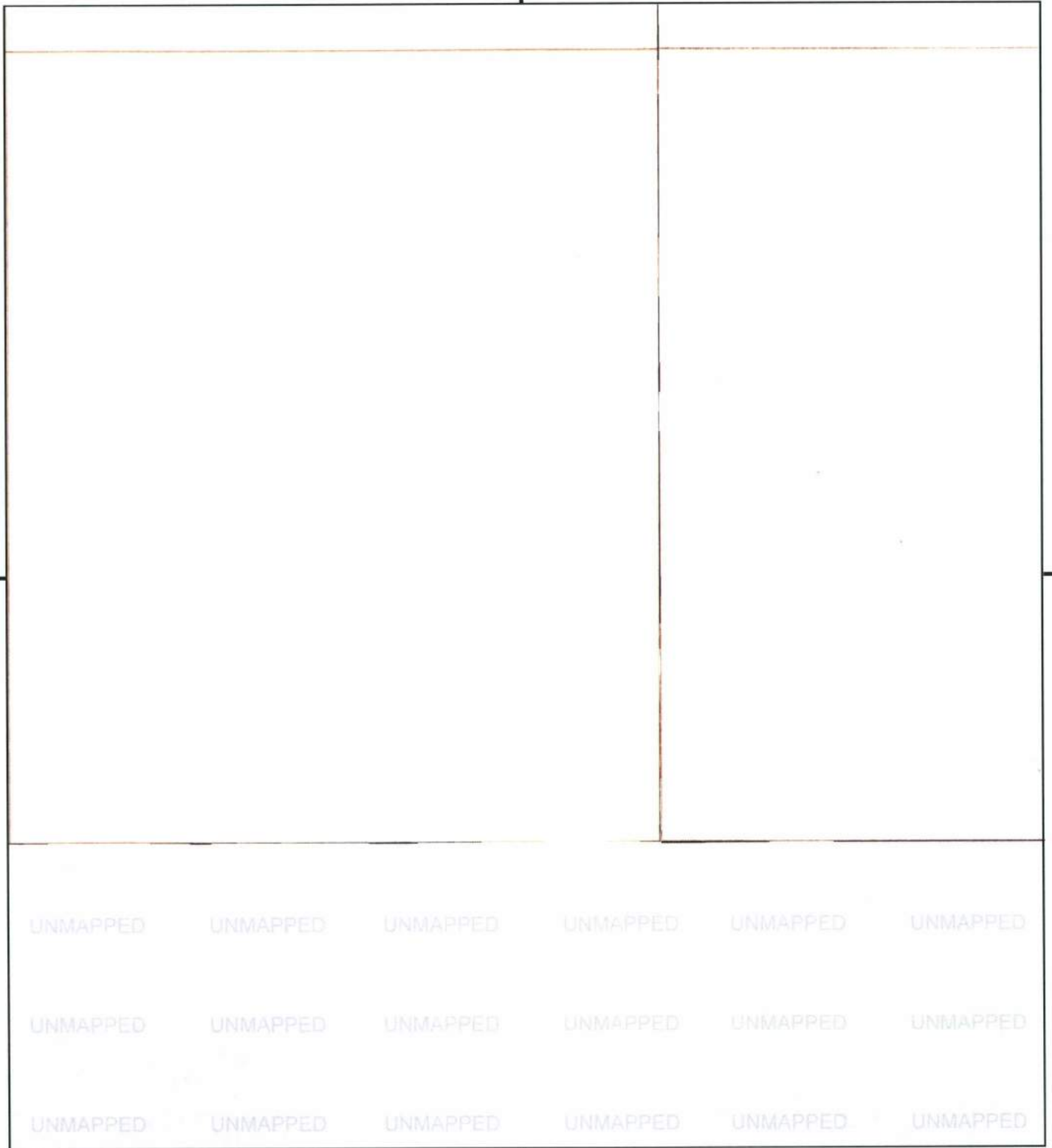
This report includes information from the following map sheet(s).



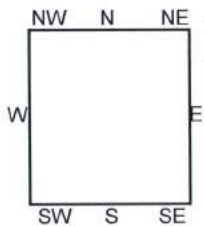
TP, Sierra Madre, 1928, 7.5-minute  
NE, Azusa, 1928, 7.5-minute  
SE, Puente, 1927, 7.5-minute  
SW, El Monte, 1926, 7.5-minute

SITE NAME: Residential and Vacant  
ADDRESS: 4343 and 4371 E. Live Oak Avenue  
Arcadia, CA 91006  
CLIENT: The Reynolds Group





This report includes information from the following map sheet(s).

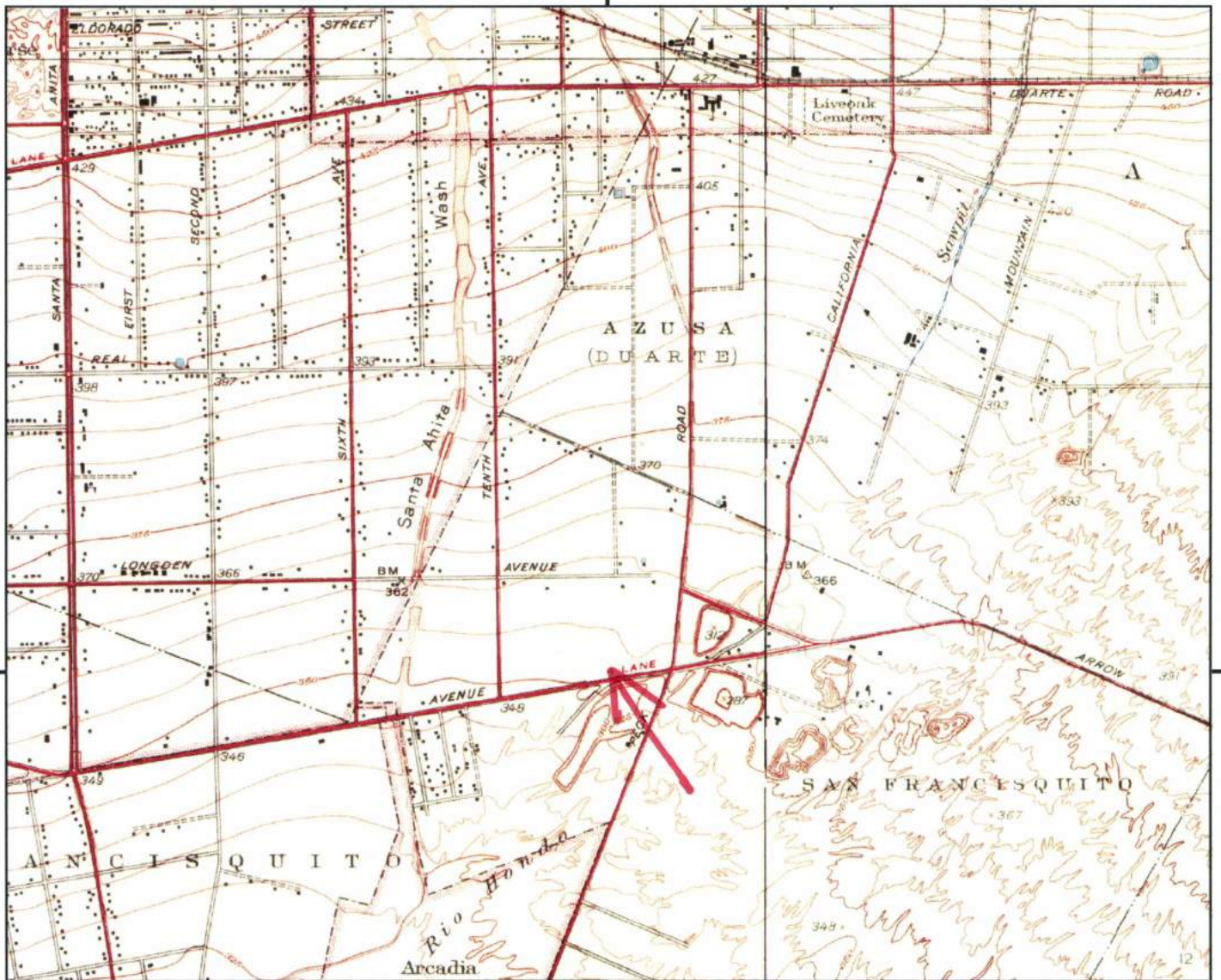


TP, Sierra Madre, 1933, 7.5-minute  
NE, Azusa, 1933, 7.5-minute

SITE NAME: Residential and Vacant  
ADDRESS: 4343 and 4371 E. Live Oak Avenue  
Arcadia, CA 91006  
CLIENT: The Reynolds Group

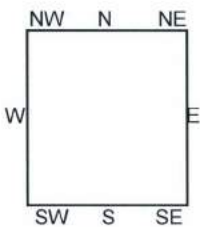






UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED  
 UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED  
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This report includes information from the following map sheet(s).

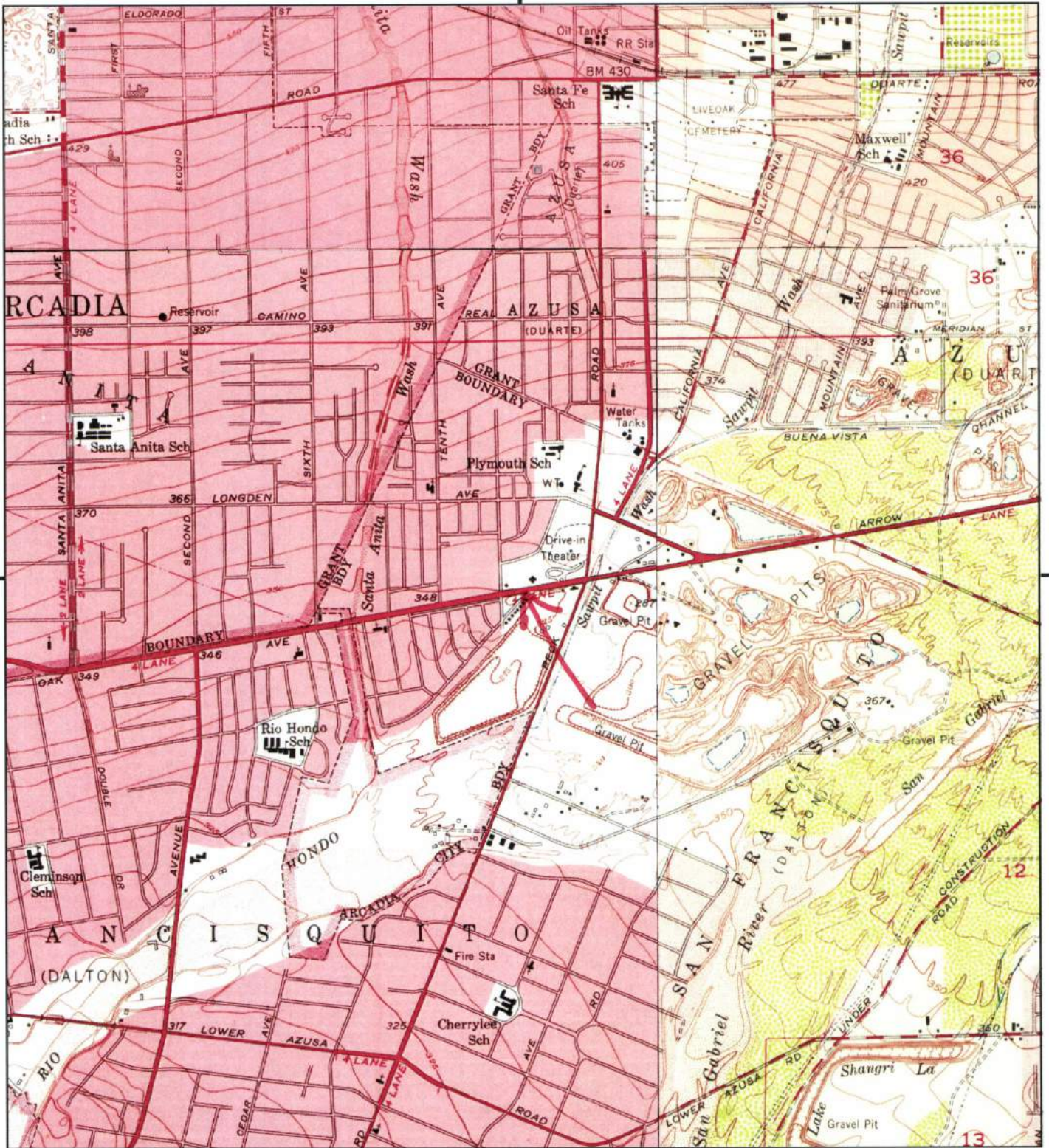


TP, Sierra Madre, 1941, 7.5-minute  
 NE, Azusa, 1939, 7.5-minute

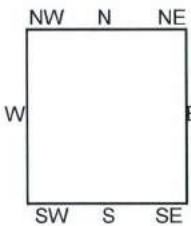
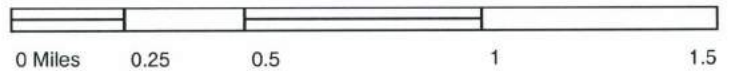
**SITE NAME:** Residential and Vacant  
**ADDRESS:** 4343 and 4371 E. Live Oak Avenue  
 Arcadia, CA 91006  
**CLIENT:** The Reynolds Group







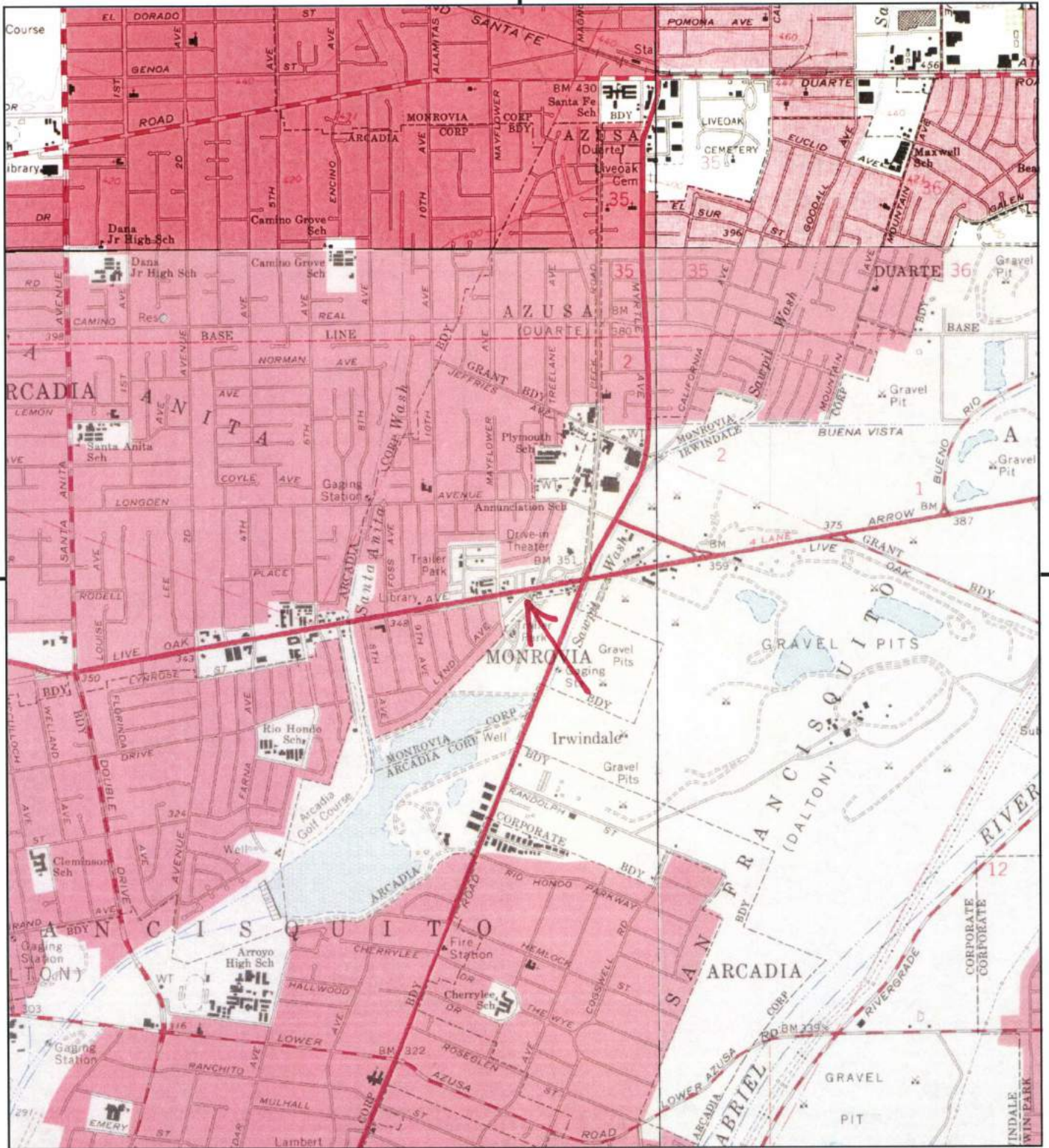
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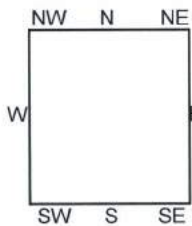
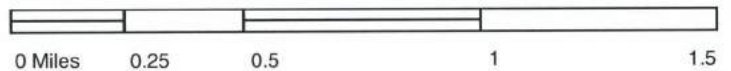
- TP, El Monte, 1953, 7.5-minute
- NE, Azusa, 1953, 7.5-minute
- SE, Baldwin Park, 1953, 7.5-minute
- NW, Mt. Wilson, 1953, 7.5-minute

**SITE NAME:** Residential and Vacant  
**ADDRESS:** 4343 and 4371 E. Live Oak Avenue  
 Arcadia, CA 91006  
**CLIENT:** The Reynolds Group





This report includes information from the following map sheet(s).

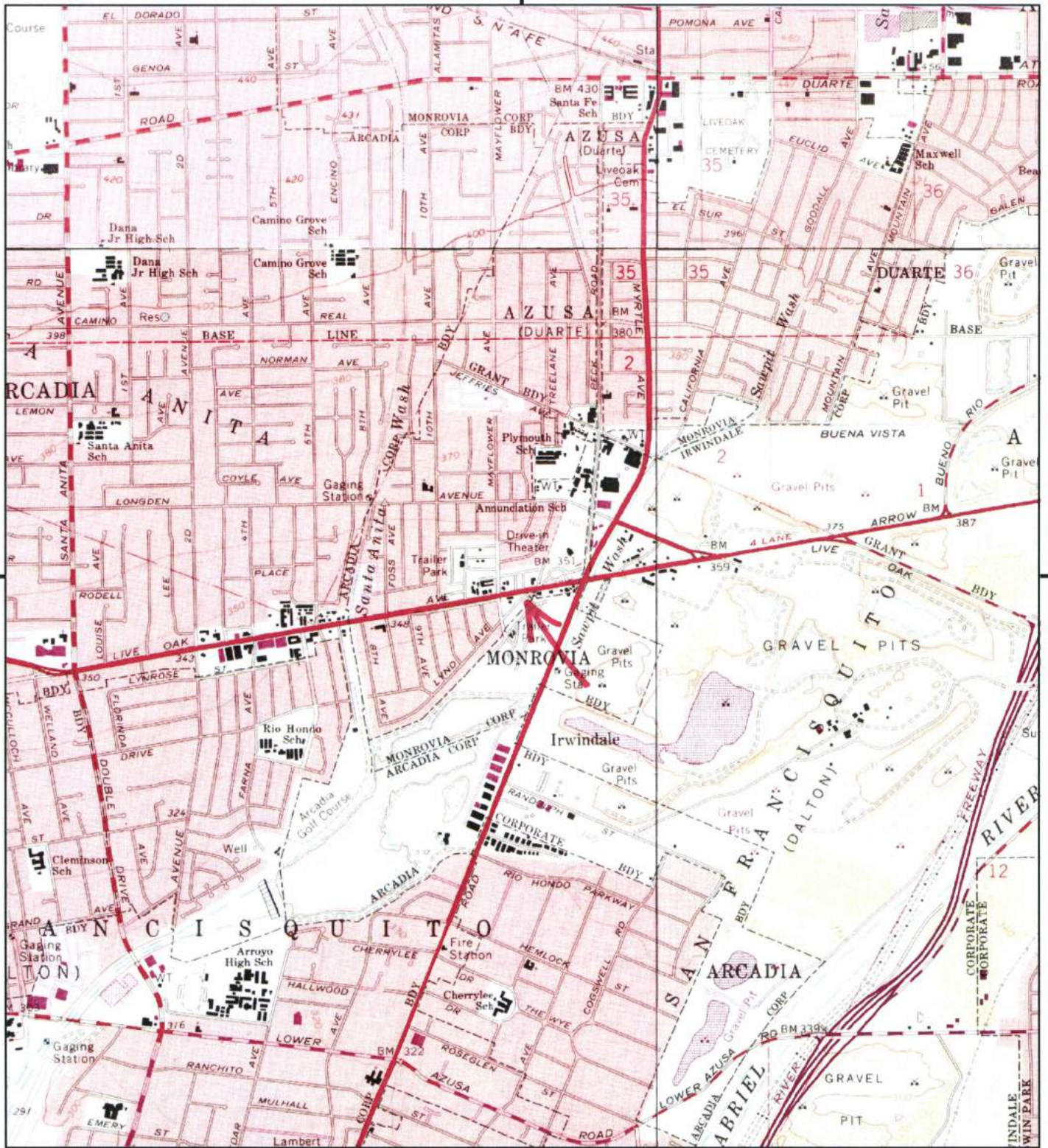


- TP, El Monte, 1966, 7.5-minute
- NE, Azusa, 1966, 7.5-minute
- SE, Baldwin Park, 1966, 7.5-minute
- NW, Mt. Wilson, 1966, 7.5-minute

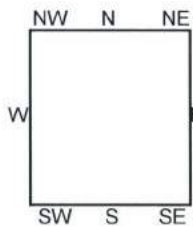
**SITE NAME:** Residential and Vacant  
**ADDRESS:** 4343 and 4371 E. Live Oak Avenue  
 Arcadia, CA 91006  
**CLIENT:** The Reynolds Group







This report includes information from the following map sheet(s).

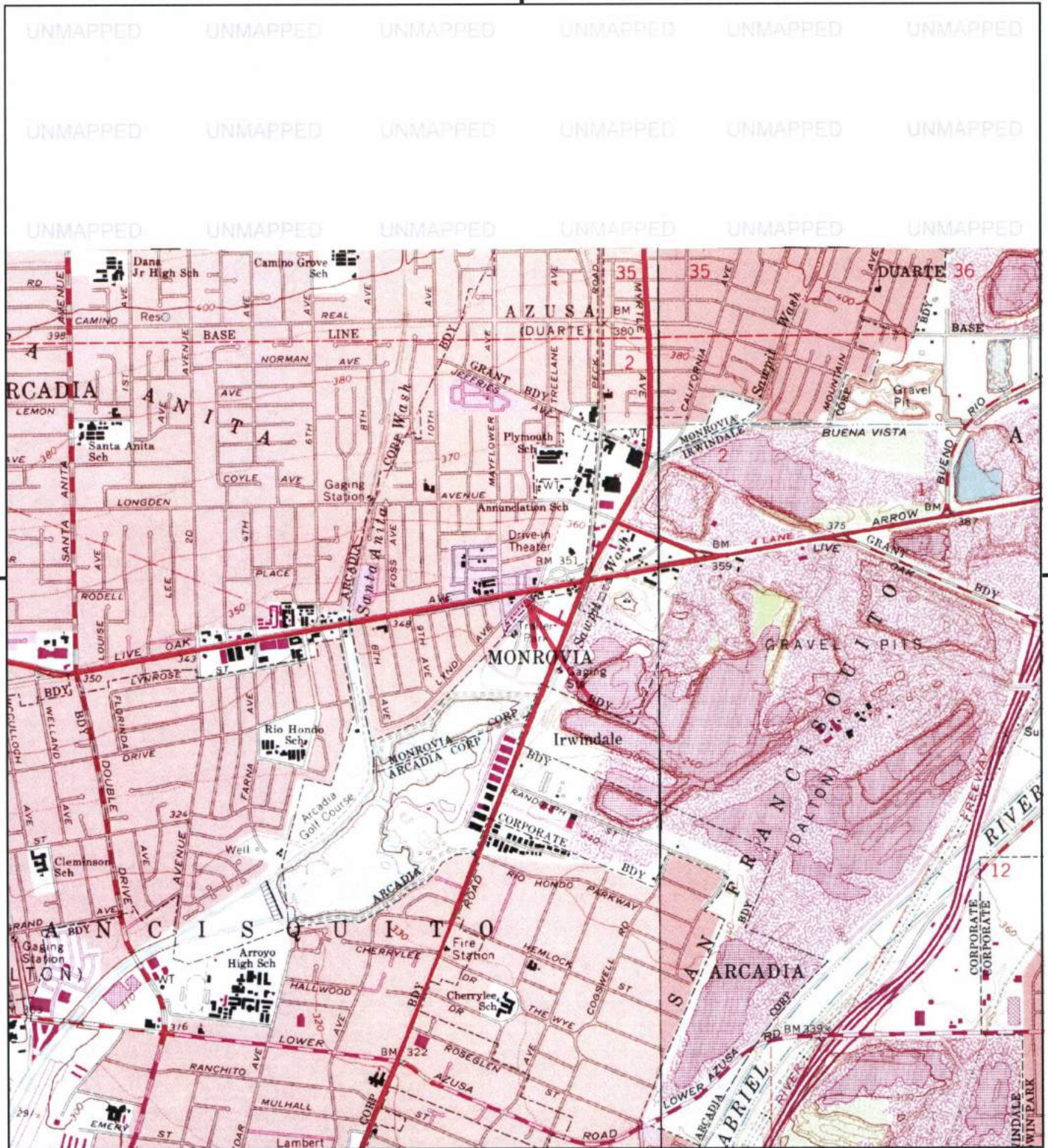


- TP, El Monte, 1972, 7.5-minute
- NE, Azusa, 1972, 7.5-minute
- SE, Baldwin Park, 1972, 7.5-minute
- NW, Mt. Wilson, 1972, 7.5-minute

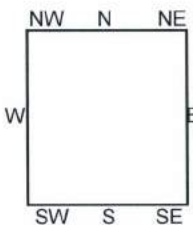
**SITE NAME:** Residential and Vacant  
**ADDRESS:** 4343 and 4371 E. Live Oak Avenue  
 Arcadia, CA 91006  
**CLIENT:** The Reynolds Group







This report includes information from the following map sheet(s).

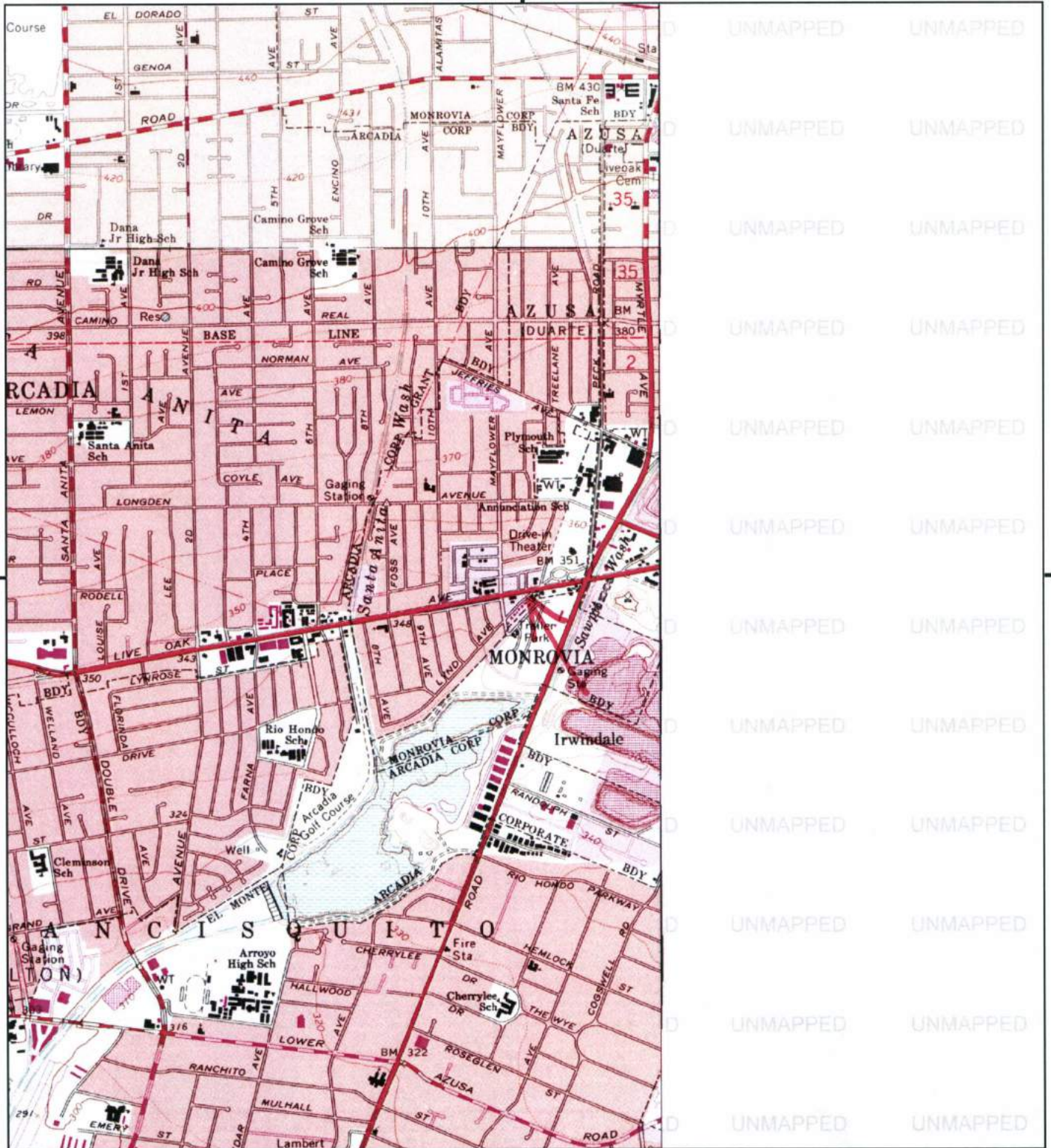


TP, El Monte, 1981, 7.5-minute  
SE, Baldwin Park, 1981, 7.5-minute

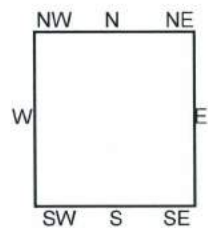
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**ADDRESS:** 4343 and 4371 E. Live Oak Avenue  
Arcadia, CA 91006  
**CLIENT:** The Reynolds Group







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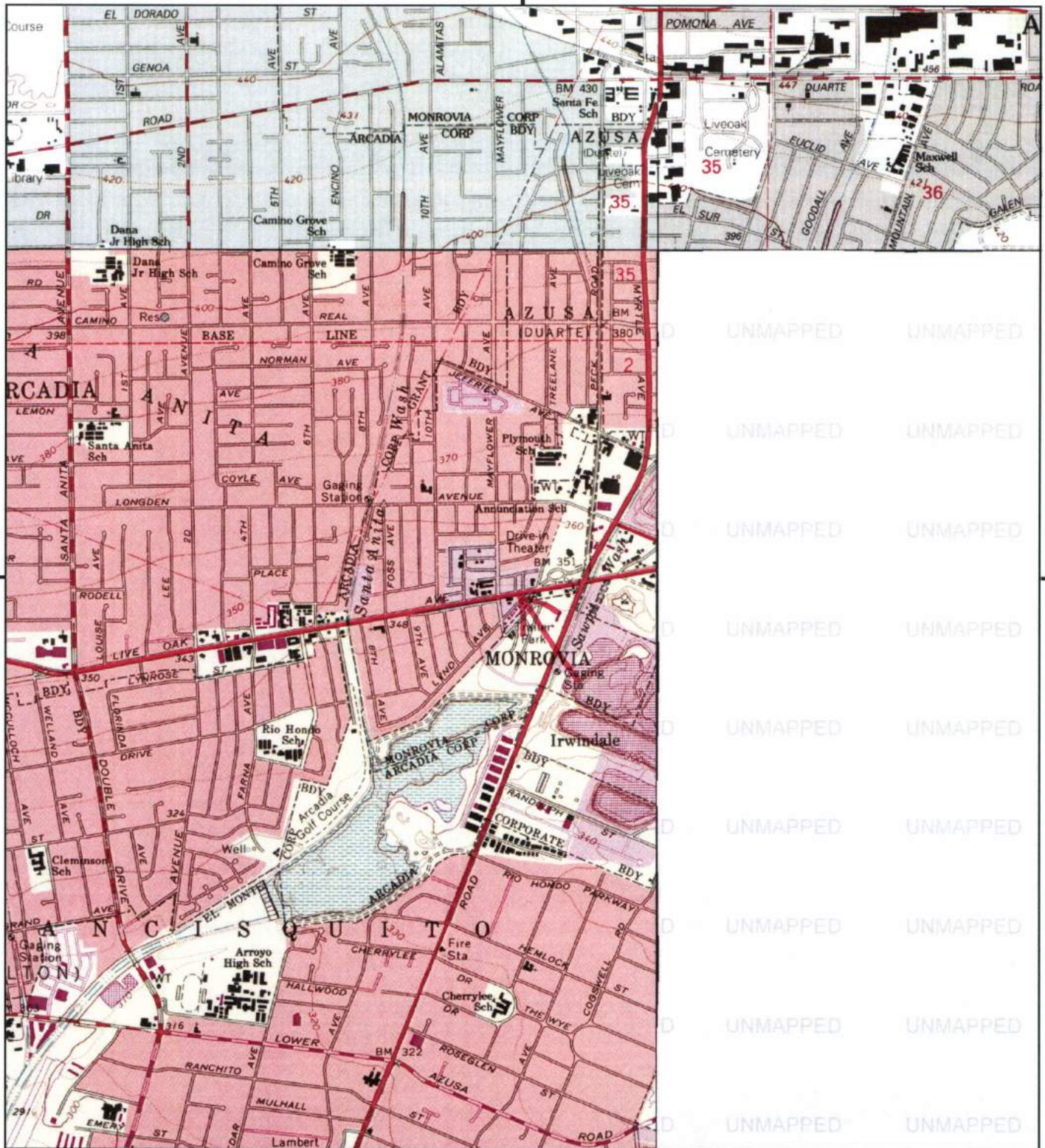


TP, El Monte, 1991, 7.5-minute  
 NW, Mt. Wilson, 1988, 7.5-minute

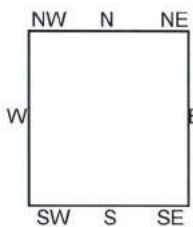
SITE NAME: Residential and Vacant  
 ADDRESS: 4343 and 4371 E. Live Oak Avenue  
 Arcadia, CA 91006  
 CLIENT: The Reynolds Group







This report includes information from the following map sheet(s).

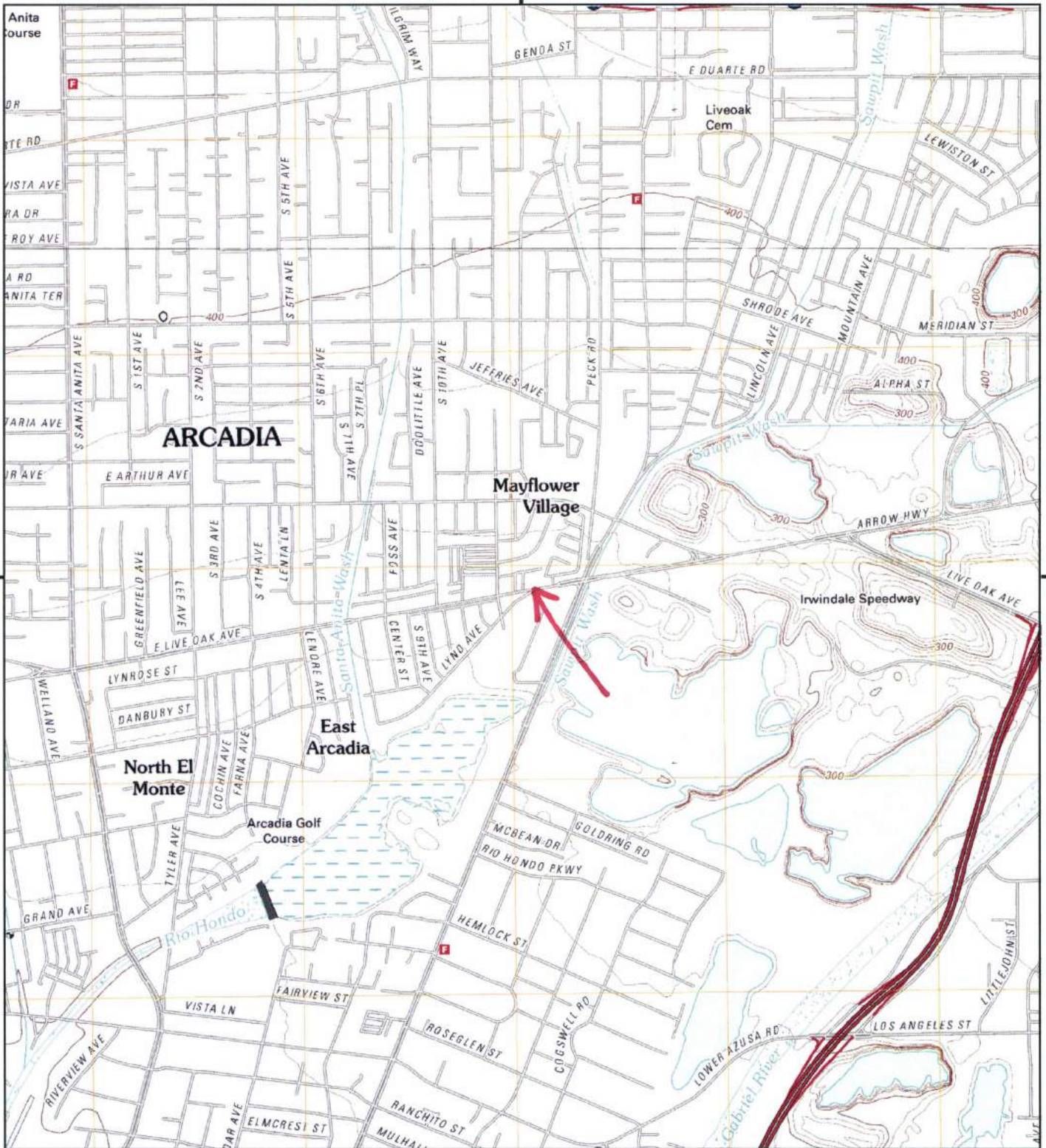


TP, El Monte, 1994, 7.5-minute  
 NE, Azusa, 1995, 7.5-minute  
 NW, Mt. Wilson, 1994, 7.5-minute  
 NW, Mount Wilson, 1995, 7.5-minute

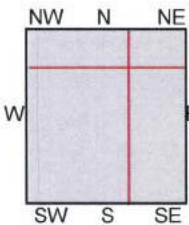
**SITE NAME:** Residential and Vacant  
**ADDRESS:** 4343 and 4371 E. Live Oak Avenue  
 Arcadia, CA 91006  
**CLIENT:** The Reynolds Group







This report includes information from the following map sheet(s).



TP, El Monte, 2012, 7.5-minute  
 NE, Azusa, 2012, 7.5-minute  
 SE, Baldwin Park, 2012, 7.5-minute  
 NW, Mount Wilson, 2012, 7.5-minute

**SITE NAME:** Residential and Vacant  
**ADDRESS:** 4343 and 4371 E. Live Oak Avenue  
 Arcadia, CA 91006  
**CLIENT:** The Reynolds Group



Residential and Vacant  
4343 and 4371 E. Live Oak Avenue  
Arcadia, CA 91006

Inquiry Number: 4822613.12  
January 09, 2017

## The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

**FIGURE 4**



# EDR Aerial Photo Decade Package

01/09/17

**Site Name:**

Residential and Vacant  
4343 and 4371 E. Live Oak Av  
Arcadia, CA 91006  
EDR Inquiry # 4822613.12

**Client Name:**

The Reynolds Group  
520 West 1st Street  
Tustin, CA 92780  
Contact: Rosanne Fischer



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

**Search Results:**

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
2002	1"=500'	Flight Date: June 06, 2002	USDA
1994	1"=500'	Acquisition Date: June 01, 1994	USGS/DOQQ
1990	1"=500'	Flight Date: September 06, 1990	USDA
1989	1"=500'	Flight Date: August 22, 1989	USDA
1983	1"=500'	Flight Date: November 23, 1983	EDR Proprietary Brewster Pacific
1972	1"=500'	Flight Date: November 18, 1972	EDR Proprietary Brewster Pacific
1970	1"=500'	Flight Date: February 08, 1970	EDR Proprietary Brewster Pacific
1964	1"=500'	Flight Date: August 15, 1964	USGS
1952	1"=500'	Flight Date: August 02, 1952	USGS
1948	1"=500'	Flight Date: July 10, 1948	USGS
1938	1"=500'	Flight Date: May 06, 1938	USDA
1928	1"=500'	Flight Date: January 01, 1928	USGS

**When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.**

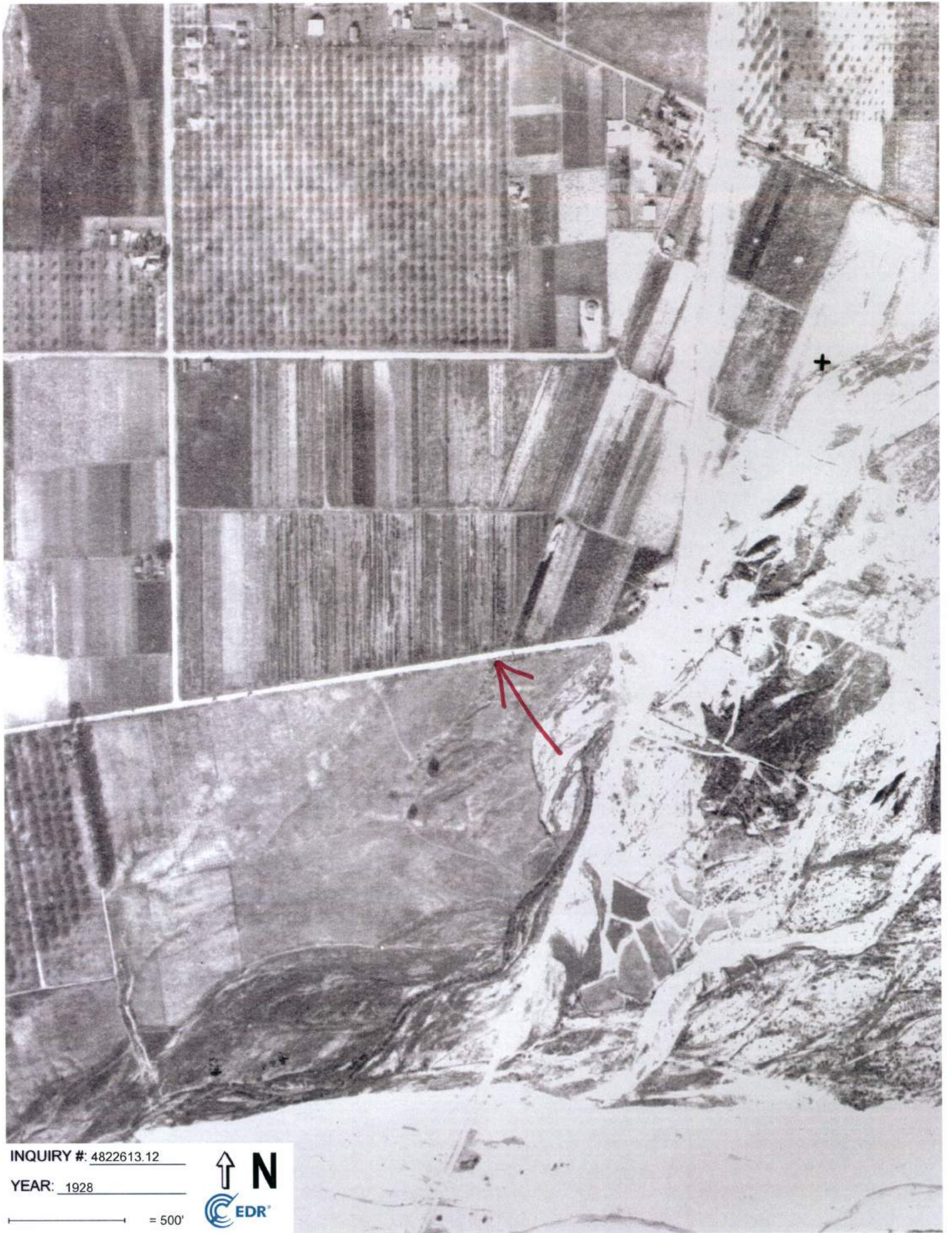
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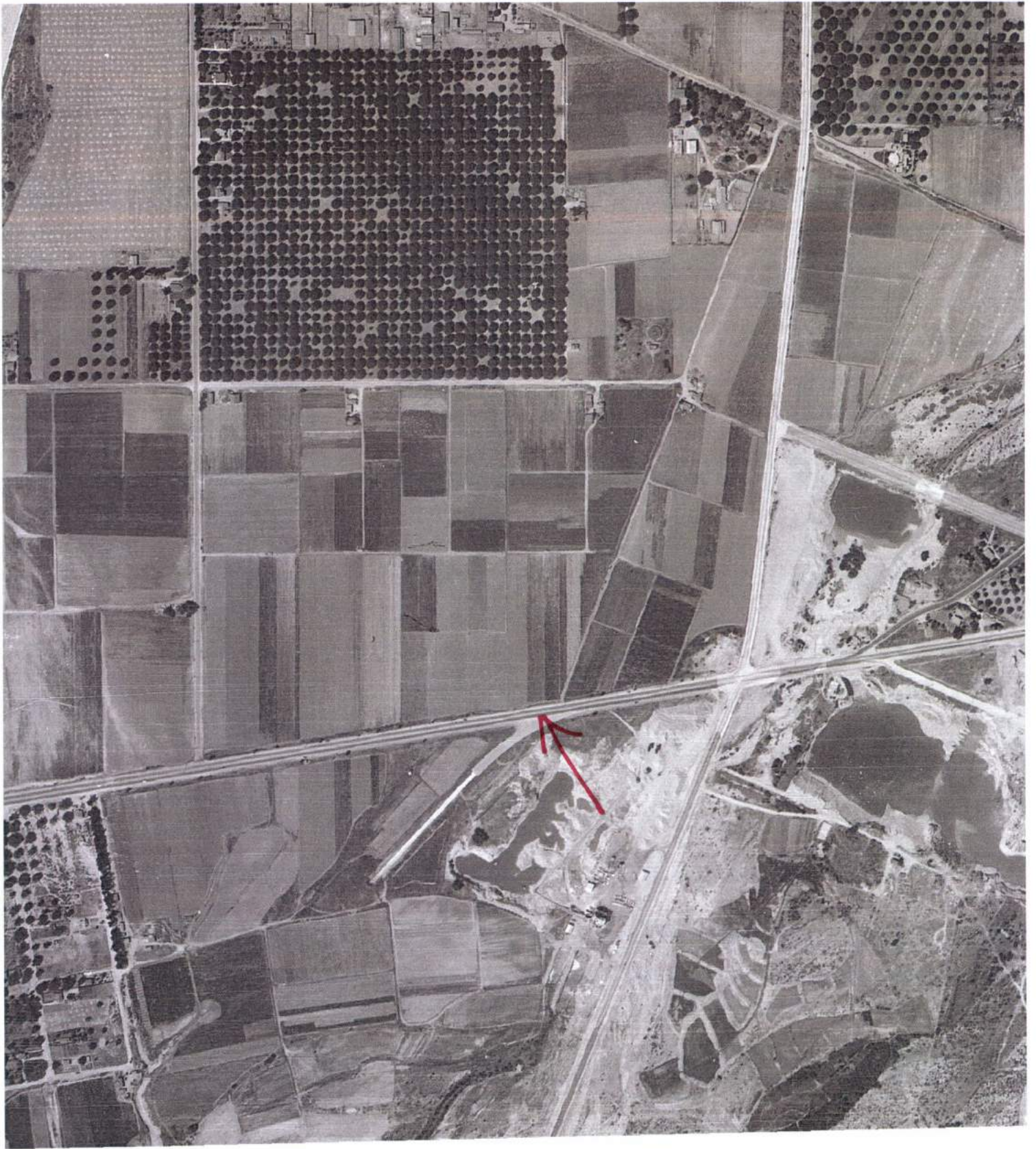
INQUIRY #: 4822613.12

YEAR: 1928

— = 500'







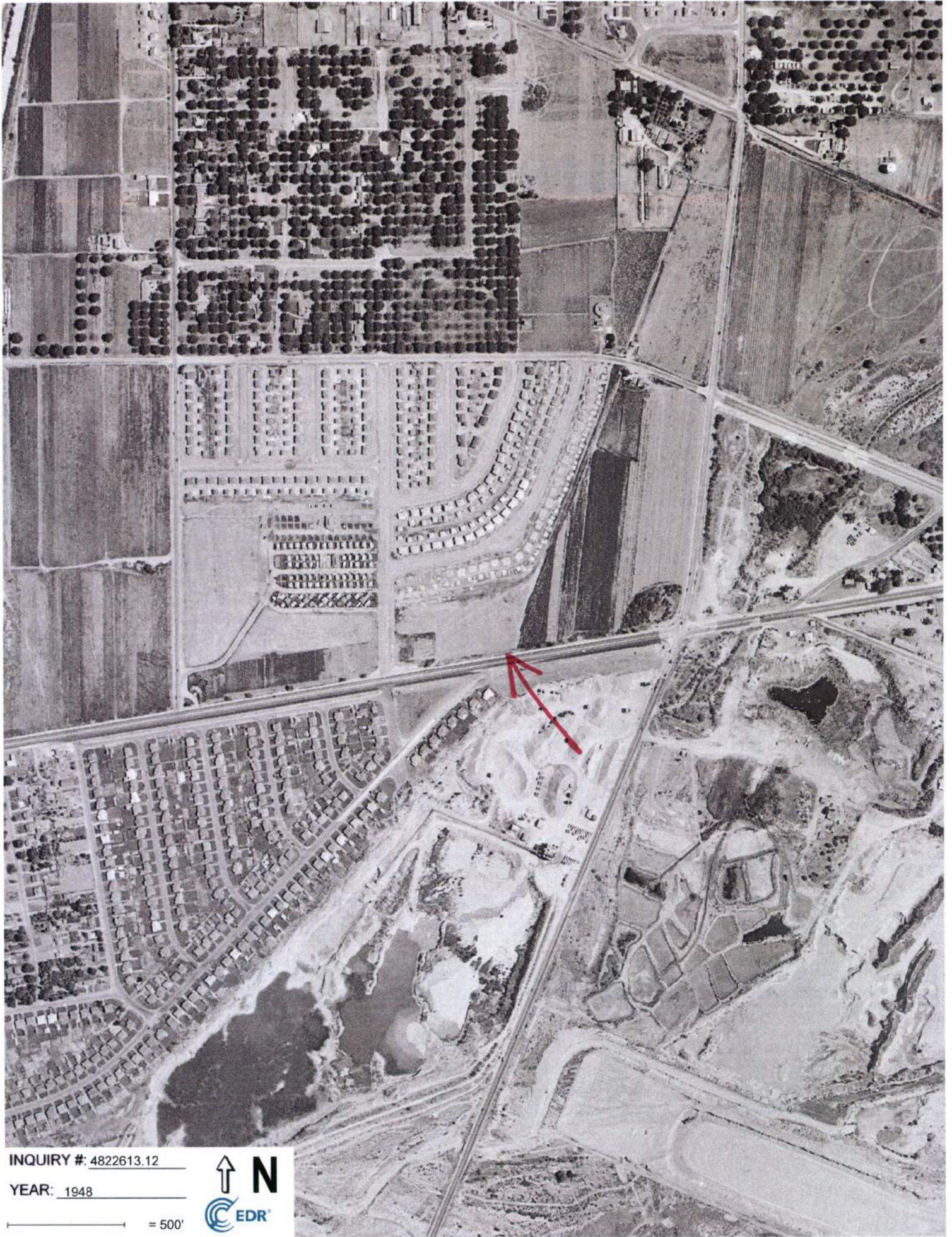
INQUIRY #: 4822613.12

YEAR: 1938

— = 500'







INQUIRY #: 4822613.12

YEAR: 1948

— = 500'







INQUIRY #: 4822613.12

YEAR: 1952

— = 500'







INQUIRY #: 4822613.12

YEAR: 1964

— = 500'







INQUIRY #: 4822613.12

YEAR: 1970

— = 500'







INQUIRY #: 4822613.12

YEAR: 1972

— = 500'







INQUIRY #: 4822613.12

YEAR: 1983

— = 500'







INQUIRY #: 4822613.12

YEAR: 1989

— = 500'







INQUIRY #: 4822613.12

YEAR: 1990

— = 500'







INQUIRY #: 4822613.12

YEAR: 1994

— = 500'







INQUIRY #: 4822613.12

YEAR: 2002

— = 500'







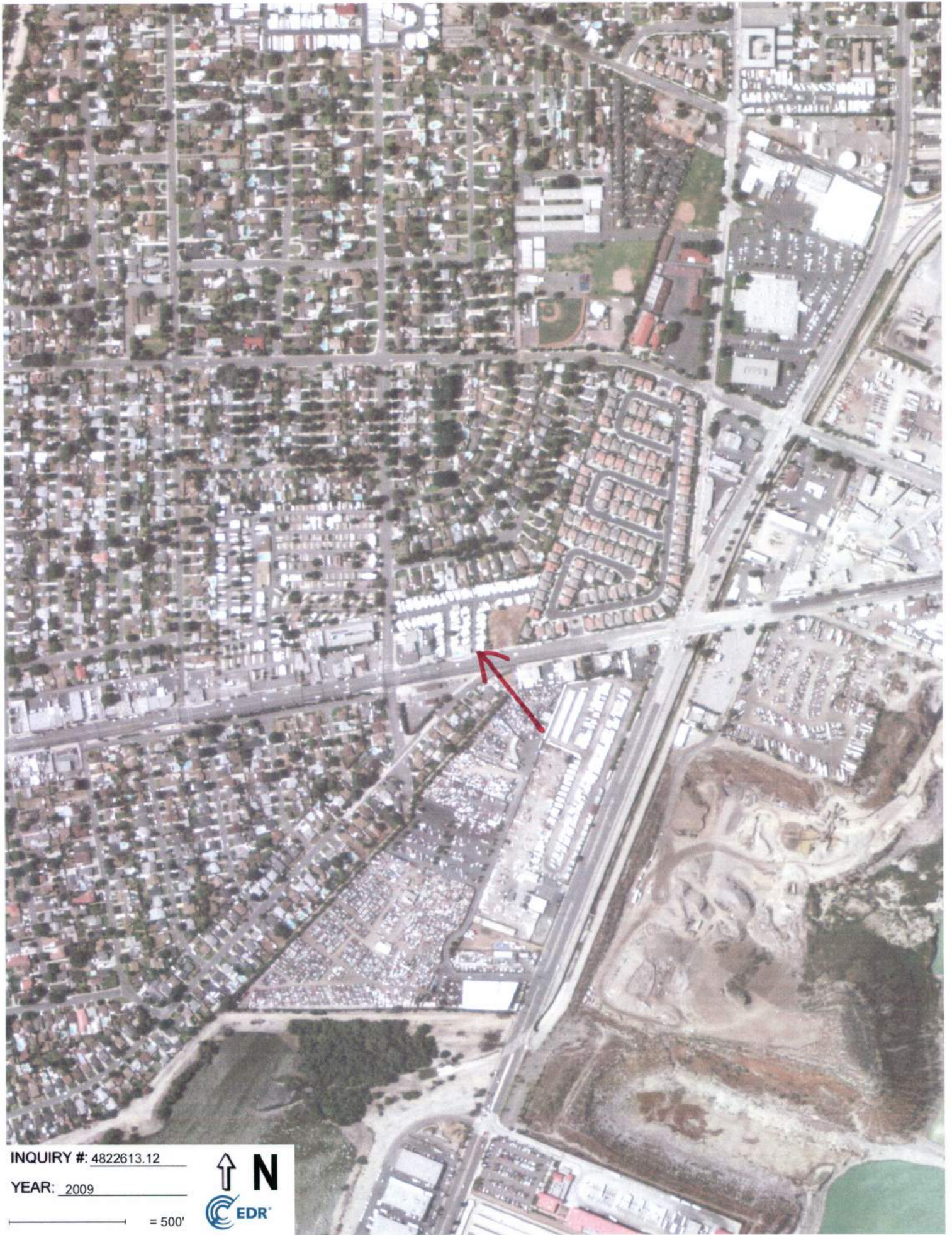
INQUIRY #: 4822613.12

YEAR: 2005

— = 500'







INQUIRY #: 4822613.12

YEAR: 2009

— = 500'







INQUIRY #: 4822613.12

YEAR: 2010

— = 500'







INQUIRY #: 4822613.12

YEAR: 2012

— = 500'





**APPENDIX A**

**PHOTOGRAPHS OF PROPERTY AND VICINITY**



1. 4343 E. LIVE OAK, VIEW FROM SOUTH OF E. LIVE OAK LOOKING NORTH.



2. 4343 E. LIVE OAK – VIEW FROM SOUTH SIDE LOOKING NORTH.



3. 4343 E. LIVE OAK - VIEW FROM WEST SIDE LOOKING EAST.



4. 4343 E. LIVE OAK - VIEW FROM NORTH-CENTER AREA LOOKING EAST.





5. 4343 E. LIVE OAK - LAUNDRY ROOM AT NORTH-CENTER AREA OF PARCEL.



6. 4343 E. LIVE OAK - BORING MARKER ON PARCEL.



7. 4343 E. LIVE OAK - BORING MARKER ON PARCEL.



8. 4371 E. LIVE OAK – VIEW FROM NORTHEAST CORNER LOOKING SOUTHWEST.





9. 4371 E. LIVE OAK – VIEW FROM SOUTH SIDE OF E. LIVE OAK LOOKING NORTHEAST.



10. 4371 E. LIVE OAK - NORTH BOUNDARY, VIEW FROM NORTHEAST CORNER LOOKING WEST.





11. 4371 E. LIVE OAK - SOUTH PROPERTY BOUNDARY, VIEW FROM SOUTHWEST LOOKING EAST.



12. 4371 E. LIVE OAK - EAST PROPERTY BOUNDARY, VIEW FROM SOUTHEAST LOOKING NORTH.

THE REYNOLDS GROUP  
4343 & 4371 E. Live Oak Ave., Arcadia, CA





13. 4371 E. LIVE OAK - WEST SIDE BOUNDARY, VIEW FROM SOUTHWEST LOOKING NORTH.



14. 4371 E. LIVE OAK - PLANTER ALONG EAST SIDE PARCEL BOUNDARY.





15. 4371 E. LIVE OAK - BORING MARKER B7 (ONE OF THREE OBSERVED ON PARCEL).



16. 4371 E. LIVE OAK - BORING MARKER B9.





17. ADJACENT - RESIDENTIAL NEIGHBORHOOD ADJOINING NORTH OF PROPERTY.



18. ADJACENT - ACUPUNCTURE OFFICE ADJOINING SOUTHWEST OF PROPERTY.





19. ADJACENT - CONVENIENCE STORE ADJOINING SOUTHWEST OF PROPERTY.



20. ADJACENT - APARTMENTS ADJACENT WEST OF PROPERTY, WEST OF MAYFLOWER.



21. ADJACENT - RESIDENTIAL NEIGHBORHOOD ADJOINING EAST OF PROPERTY.



22. ADJACENT - CLOSED CAR WASH/GAS STATION SOUTH OF PROPERTY, SOUTH OF LIVE OAK.

**APPENDIX B**

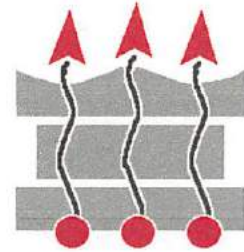
**OWNER RESPONSES TO INTERVIEW QUESTIONS  
AND CHICAGO TITLE PRELIMINARY TITLE REPORT**

SITE ADDRESS: 4343 E. Live Oak, Arcadia, CA  
APN: 8511-018-012

DATE OF RESPONSE: 2-10-17

RESPONDENT NAME  
& TITLE: Daniel Bayar - MGR

RESPONDENT SIGNATURE: 



THE  
REYNOLDS GROUP  
A California Corporation

**CURRENT OWNER PHASE I QUESTIONS (USE ADDITIONAL SHEETS IF NECESSARY TO COMPLETELY ANSWER THE FOLLOWING QUESTIONS:**

1. WHO IS THE LEGAL OWNER(S)/ENTITY(IES) OF THE PROPERTY?  
*LIVE OAK COMMUNITY PARK, LLC*
2. HOW LONG HAVE YOU OWNED THE PROPERTY? IF LESS THAN 5 YEARS, PLEASE PROVIDE PREVIOUS OWNER CONTACT INFORMATION?  
*20+ Years*
3. PLEASE PROVIDE HISTORICAL USES AT THE PROPERTY?  
*Mobile Home Park*
4. ARE YOU AWARE OF ANY PREVIOUS ENVIRONMENTAL INVESTIGATIONS PERFORMED AT THE PROPERTY? IF SO, PLEASE PROVIDE A COPY OF THE REPORT(S).  
*No*
5. DO ANY WELLS, UNDERGROUND STORAGE TANKS, CLARIFIERS, OR HYDRAULIC LIFTS EXIST AT THE PROPERTY? ANY CHEMICAL USE? ANY HAZARDOUS DUMPING?  
*Not to my knowledge*
6. ARE YOU AWARE OF ANY EXISTING OR HISTORICAL ENVIRONMENTAL HAZARDS AT THE PROPERTY?  
*No*
7. DO ANY ENVIRONMENTAL LIENS, ENGINEERING CONTROLS OR LAND USE RESTRICTIONS EXIST FOR THE PROPERTY?  
*Not to my knowledge*
8. WHAT IS THE PURPOSE OF HAVING THIS PHASE I PERFORMED? (EX: POTENTIAL SALE, REFINANCE, INTERNAL DUE DILIGENCE ONLY)  
*For informational purposes*
9. IF APPLICABLE, DO YOU BELIEVE THE LISTED SALE PRICE OF THE PROPERTY IS "REASONABLE" AND NOT NOTABLY DISCOUNTED DUE TO POTENTIAL ENVIRONMENTAL ISSUES?  
*N/A*

Please e-mail or fax your response to me just as soon as possible and no later than **February 13, 2017**. You may send it to [fischer@reynolds-group.com](mailto:fischer@reynolds-group.com) or by fax to (714)730-6476. If you have questions, please feel free in calling me in our offices at (714)730-5397 Ext. 123. Thanks very much!

**THE REYNOLDS GROUP**  
a California corporation by:  
Rosanne Fischer, REPA #419564

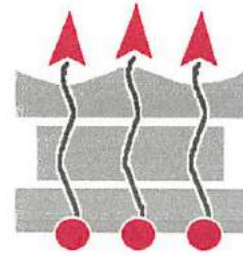


SITE ADDRESS: 4371 E. Live Oak, Arcadia, CA  
APN: 8511-018-015

DATE OF RESPONSE: 2-10-17

RESPONDENT NAME  
& TITLE: Daniel Bayar - MGR

RESPONDENT SIGNATURE: *[Signature]*



THE  
REYNOLDS GROUP  
A California Corporation

**CURRENT OWNER PHASE I QUESTIONS (USE ADDITIONAL SHEETS IF NECESSARY TO COMPLETELY ANSWER THE FOLLOWING QUESTIONS:**

1. WHO IS THE LEGAL OWNER(S)/ENTITY(IES) OF THE PROPERTY?  
*Live Oak 4371, LLC.*
2. HOW LONG HAVE YOU OWNED THE PROPERTY? IF LESS THAN 5 YEARS, PLEASE PROVIDE PREVIOUS OWNER CONTACT INFORMATION?  
*20 years*
3. PLEASE PROVIDE HISTORICAL USES AT THE PROPERTY?  
*N/A*
4. ARE YOU AWARE OF ANY PREVIOUS ENVIRONMENTAL INVESTIGATIONS PERFORMED AT THE PROPERTY? IF SO, PLEASE PROVIDE A COPY OF THE REPORT(S).  
*No*
5. DO ANY WELLS, UNDERGROUND STORAGE TANKS, CLARIFIERS, OR HYDRAULIC LIFTS EXIST AT THE PROPERTY? ANY CHEMICAL USE? ANY HAZARDOUS DUMPING?  
*Not to my knowledge*
6. ARE YOU AWARE OF ANY EXISTING OR HISTORICAL ENVIRONMENTAL HAZARDS AT THE PROPERTY?  
*No*
7. DO ANY ENVIRONMENTAL LIENS, ENGINEERING CONTROLS OR LAND USE RESTRICTIONS EXIST FOR THE PROPERTY?  
*Not to my knowledge*
8. WHAT IS THE PURPOSE OF HAVING THIS PHASE I PERFORMED? (EX: POTENTIAL SALE, REFINANCE, INTERNAL DUE DILIGENCE ONLY)  
*For informational purposes*
9. IF APPLICABLE, DO YOU BELIEVE THE LISTED SALE PRICE OF THE PROPERTY IS "REASONABLE" AND NOT NOTABLY DISCOUNTED DUE TO POTENTIAL ENVIRONMENTAL ISSUES?  
*N/A*

Please e-mail or fax your response to me just as soon as possible and no later than **February 13, 2017**. You may send it to [fischer@reynolds-group.com](mailto:fischer@reynolds-group.com) or by fax to (714)730-6476. If you have questions, please feel free in calling me in our offices at (714)730-5397 Ext. 123. Thanks very much!

**THE REYNOLDS GROUP**  
a California corporation by:  
Rosanne Fischer, REPA #419564



Issuing Policies of Chicago Title Insurance Company

ORDER NO.: **00064691-994-LT2-JC**

Escrow/Customer Phone: **(213) 488-4300**

Aleksco, Llc  
P.O. Box 11703  
Beverly Hills, CA 90213  
ATTN: Matthew Aleksich  
Email: matthew@aleksco.com  
Ref:

Title Officer: **Jordan Curiel (LA/Comm)**  
Title Officer Phone: **(213) 488-4371**  
Title Officer Fax: **(213) 612-4171**  
Title Officer Email: **UnitX23@ctt.com**

PROPERTY: **4343 & 4371 E. LIVE OAK AVE., UNINCORPORATED COUNTY OF LOS ANGELES, CA 91006**

**PRELIMINARY REPORT**

*In response to the application for a policy of title insurance referenced herein, **Chicago Title Company** hereby reports that it is prepared to issue, or cause to be issued, as of the date hereof, a policy or policies of title insurance describing the land and the estate or interest therein hereinafter set forth, insuring against loss which may be sustained by reason of any defect, lien or encumbrance not shown or referred to as an exception herein or not excluded from coverage pursuant to the printed Schedules, Conditions and Stipulations or Conditions of said policy forms.*

*The printed Exceptions and Exclusions from the coverage and Limitations on Covered Risks of said policy or policies are set forth in Attachment One. The policy to be issued may contain an arbitration clause. When the Amount of Insurance is less than that set forth in the arbitration clause, all arbitrable matters shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the parties. Limitations on Covered Risks applicable to the CLTA and ALTA Homeowner's Policies of Title Insurance which establish a Deductible Amount and a Maximum Dollar Limit of Liability for certain coverages are also set forth in Attachment One. Copies of the policy forms should be read. They are available from the office which issued this report.*

*This report (and any supplements or amendments hereto) is issued solely for the purpose of facilitating the issuance of a policy of title insurance and no liability is assumed hereby. If it is desired that liability be assumed prior to the issuance of a policy of title insurance, a Binder or Commitment should be requested.*

*The policy(s) of title insurance to be issued hereunder will be policy(s) of Chicago Title Insurance Company, a Nebraska Corporation.*

*Please read the exceptions shown or referred to herein and the exceptions and exclusions set forth in Attachment One of this report carefully. The exceptions and exclusions are meant to provide you with notice of matters which are not covered under the terms of the title insurance policy and should be carefully considered.*

*It is important to note that this preliminary report is not a written representation as to the condition of title and may not list all liens, defects and encumbrances affecting title to the land.*

Chicago Title Company

By:   
Authorized Signature



By:   
Randy Quirk, President  
Attest:   
Michael Gravelle, Secretary



**PRELIMINARY REPORT**

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**EFFECTIVE DATE:**                    **January 23, 2017 at 7:30 a.m.**

**ORDER NO.:** 00064691-994-LT2-JC

The form of policy or policies of title insurance contemplated by this report is:

**ALTA Extended Owner's Policy (6-17-06)**

1. THE ESTATE OR INTEREST IN THE LAND HEREINAFTER DESCRIBED OR REFERRED TO COVERED BY THIS REPORT IS:

**Fee Estate**

2. TITLE TO SAID ESTATE OR INTEREST AT THE DATE HEREOF IS VESTED IN:

**Live Oak Community Park LLC, as to Parcel 1; and**

**Live Oak 4371, LLC, a California limited liability company, as to Parcel 2**

3. THE LAND REFERRED TO IN THIS REPORT IS DESCRIBED AS FOLLOWS:

**See Exhibit A attached hereto and made a part hereof.**

**EXHIBIT "A"**

**LEGAL DESCRIPTION**

THE LAND REFERRED TO HEREIN BELOW IS SITUATED UNINCORPORATED COUNTY OF LOS ANGELES, IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

PARCEL 1: ([8511-018-012](#))

THAT PORTION OF LOT 146, ARCADIA ACREAGE TRACT, IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS SHOWN ON MAP RECORDED IN [BOOK 10 PAGE 18 OF MAPS](#), IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, DESCRIBED AS FOLLOWS:

BEGINNING AT THE MOST SOUTHERLY CORNER OF LOT 106 OF [TRACT NO. 15099](#), AS SHOWN ON MAP RECORDED IN [BOOK 319 PAGES 43 AND 44 OF MAPS](#); THENCE SOUTH 0° 09' 27" EAST 151.87 FEET, ALONG THE EAST LINE OF MAYFLOWER AVENUE, 80.00 FEET IN WIDTH, TO THE INTERSECTION WITH A LINE WHICH IS PARALLEL WITH, AND DISTANT NORTHERLY 150.00 FEET, MEASURED AT RIGHT ANGLES, FROM THE NORTHERLY LINE OF LIVE OAK AVENUE, 100.00 FEET IN WIDTH; THENCE NORTH 80° 49' 38" EAST ALONG SAID PARALLEL LINE 175.00 FEET; THENCE SOUTH 0° 09' 27" EAST 151.87 FEET TO A POINT IN SAID NORTHERLY LINE OF LIVE OAK AVENUE DISTANT THEREON NORTH 80° 49' 38" EAST 175.00 FEET FROM THE INTERSECTION OF THE SOUTHERLY PROLONGATION OF THE EAST LINE OF SAID MAYFLOWER AVENUE WITH THE NORTHERLY LINE OF SAID LIVE OAK AVENUE; THENCE NORTH 60° 49' 38" EAST ALONG SAID NORTHERLY LINE 245.00 FEET; THENCE NORTH 1° 41' 42" EAST 183.29 FEET TO THE INTERSECTION WITH A LINE WHICH IS PARALLEL WITH AND DISTANT NORTHERLY 180.00 FEET MEASURED AT RIGHT ANGLES FROM THE NORTHERLY LINE OF SAID LIVE OAK AVENUE; THENCE NORTH 80° 49' 38" EAST ALONG SAID PARALLEL LINE 198.50 FEET TO THE INTERSECTION WITH THE SOUTHWESTERLY PROLONGATION OF THE SOUTHEASTERLY LINE OF SAID [TRACT NO. 15099](#); THENCE NORTH 20° 51' 19" EAST ALONG SAID SOUTHWESTERLY PROLONGATION 138.60 FEET TO THE MOST EASTERLY CORNER OF LOT 96 OF SAID [TRACT NO. 15099](#); THENCE SOUTH 80° 49' 38" WEST 64.83 FEET, ALONG THE BOUNDARY LINE OF SAID TRACT NO. 15099 TO THE POINT OF BEGINNING.

PARCEL 2: ([8511-018-015](#))

THAT PORTION OF LOT 146, ARCADIA ACREAGE TRACT, IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS SHOWN ON MAP RECORDED IN [BOOK 10 PAGE 18, OF MAPS](#), IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT OF INTERSECTION OF THE SOUTHERLY PROLONGATION OF THE EASTERLY LINE OF MAYFLOWER AVENUE, 80.00 FEET IN WIDTH, AS SHOWN ON MAP OF [TRACT NO. 15099](#), RECORDED IN [BOOK 319 PAGES 43 AND 44 OF SAID MAPS](#), AND THE NORTHERLY LINE OF LIVE OAK AVENUE, 100.00 FEET IN WIDTH; THENCE NORTH 80° 49' 38" EAST 420.00 FEET TO THE TRUE POINT OF BEGINNING; THENCE NORTH 1° 41' 42" EAST 183.29 FEET TO THE INTERSECTION WITH A LINE WHICH IS PARALLEL WITH AND DISTANT NORTHERLY 180.00 FEET MEASURED AT RIGHT ANGLES, FROM THE NORTHERLY LINE OF SAID LIVE OAK AVENUE; THENCE MEASURED AT RIGHT ANGLES, FROM THE NORTHERLY LINE OF SAID LIVE OAK AVENUE; THENCE NORTH 80° 49' 38" EAST 198.50 FEET ALONG SAID PARALLEL LINE TO THE INTERSECTION WITH THE SOUTHWESTERLY PROLONGATION OF THE SOUTHEASTERLY LINE OF SAID TRACT NO. 15099; THENCE SOUTH 20° 51' 19" WEST 207.91 FEET MORE OR LESS ALONG SAID SOUTHWESTERLY PROLONGATION TO THE INTERSECTION WITH SAID NORTHERLY LINE OF LIVE OAK AVENUE; THENCE SOUTH 80° 49' 38" WEST 129.02 FEET TO THE TRUE POINT OF BEGINNING.

APN: **8511-018-012 & 015**



### EXCEPTIONS

**AT THE DATE HEREOF, ITEMS TO BE CONSIDERED AND EXCEPTIONS TO COVERAGE IN ADDITION TO THE PRINTED EXCEPTIONS AND EXCLUSIONS IN SAID POLICY FORM WOULD BE AS FOLLOWS:**

A. Property taxes, including any personal property taxes and any assessments collected with taxes, are as follows:

Tax Identification No.: [8511-018-012](#)  
Fiscal Year: 2016-2017  
1st Installment: \$10,227.06, paid.  
2nd Installment: \$10,227.05, paid  
Homeowners Exemption: \$none  
Code Area: 06261

B. Property taxes, including any personal property taxes and any assessments collected with taxes, are as follows:

Tax Identification No.: [8511-018-015](#)  
Fiscal Year: 2016-2017  
1st Installment: \$2,248.24, paid.  
2nd Installment: \$2,248.24, paid  
Homeowners Exemption: \$none  
Code Area: 06261

C. The lien of supplemental or escaped assessments of property taxes, if any, made pursuant to the provisions of Chapter 3.5 (commencing with Section 75) or Part 2, Chapter 3, Articles 3 and 4, respectively, of the Revenue and Taxation Code of the State of California as a result of the transfer of title to the vestee named in Schedule A or as a result of changes in ownership or new construction occurring prior to Date of Policy.

1. Water rights, claims or title to water, whether or not disclosed by the public records.

#### THE FOLLOWING MATTERS AFFECT PARCEL 1

2. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Purpose: pole lines  
Recording Date: February 1, 1950  
Recording No: [Instrument No. 2348, in Book 32145, Page 149 of Official Records.](#)  
Affects: a portion of said land

3. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Purpose: public utilities  
Recording Date: April 17, 1956  
Recording No: in [Book 50914 page 288, of Official Records](#)  
Affects: a portion of said land

4. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Purpose: pole lines  
Recording Date: August 17, 1956  
Recording No: in [Book 52058 page 135, of Official Records](#)  
Affects: a portion of said land

**EXCEPTIONS  
(Continued)**

5. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Purpose: pole lines  
Recording Date: April 20, 1960  
Recording No: in [Book D820 page 246, of Official Records](#)  
Affects: a portion of said land

6. Intentionally deleted.

7. Intentionally deleted.

8. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:

Purpose: communication services  
Recording Date: June 9, 2010  
Recording No: [2010-789191, of Official Records](#)  
Affects: a portion of said land

**THE FOLLOWING MATTERS AFFECT PARCEL 2**

9. Matters contained in that certain document

Entitled: Agreement  
Recording Date: August 10, 1949  
Recording No: [2350, of Official Records](#)

Reference is hereby made to said document for full particulars.

**THE FOLLOWING MATTERS AFFECT ALL PARCELS**

10. Please be advised that our search did not disclose any open Deeds of Trust of record. If you should have knowledge of any outstanding obligation, please contact the Title Department immediately for further review prior to closing.

11. Intentionally deleted.

12. Matters which may be disclosed by an inspection and/or by a correct ALTA/NSPS Land Title Survey of said Land that is satisfactory to the Company, and/or by inquiry of the parties in possession thereof.

13. Any rights of the parties in possession of a portion of, or all of, said Land, which rights are not disclosed by the public records.

The Company will require, for review, a full and complete copy of any unrecorded agreement, contract, license and/or lease, together with all supplements, assignments and amendments thereto, before issuing any policy of title insurance without excepting this item from coverage.

The Company reserves the right to except additional items and/or make additional requirements after reviewing said documents.

The Company will require that a full copy of any unrecorded lease referred to herein be furnished to the Company, together with all supplements, assignments and amendments for review.

The Company reserves the right to add additional items or make further requirements after review of the requested documentation.

**EXCEPTIONS**  
**(Continued)**

**PLEASE REFER TO THE "INFORMATIONAL NOTES" AND "REQUIREMENTS" SECTIONS WHICH FOLLOW FOR INFORMATION NECESSARY TO COMPLETE THIS TRANSACTION.**

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**END OF EXCEPTIONS**

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## INFORMATIONAL NOTES SECTION

=clause=

1. None of the items shown in this report will cause the Company to decline to attach CLTA Endorsement Form 100 to an Extended Coverage Loan Policy, when issued.
2. The Company is not aware of any matters which would cause it to decline to attach CLTA Endorsement Form 116 indicating that there is located on said Land Commercial properties, known as 4343 & 4371 E. Live Oak Ave., located within the city of Unincorporated County of Los Angeles, California, 91006, to an Extended Coverage Loan Policy.
3. Note: The policy of title insurance will include an arbitration provision. The Company or the insured may demand arbitration. Arbitrable matters may include, but are not limited to, any controversy or claim between the Company and the insured arising out of or relating to this policy, any service of the Company in connection with its issuance or the breach of a policy provision or other obligation. Please ask your escrow or title officer for a sample copy of the policy to be issued if you wish to review the arbitration provisions and any other provisions pertaining to your Title Insurance coverage.

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**END OF INFORMATIONAL NOTES**

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Jordan Curiel (LA/Comm)/jt

## FIDELITY NATIONAL FINANCIAL PRIVACY NOTICE

At Fidelity National Financial, Inc. and its majority-owned subsidiary companies (collectively, “FNF”, “our” or “we”), we value the privacy of our customers. This Privacy Notice explains how we collect, use, and protect your information and explains the choices you have regarding that information. A summary of our privacy practices is below. We also encourage you to read the complete Privacy Notice following the summary.

<p><b>Types of Information Collected.</b> You may provide us with certain personal information, like your contact information, social security number (SSN), driver’s license, other government ID numbers, and/or financial information. We may also receive information from your Internet browser, computer and/or mobile device.</p>	<p><b>How Information is Collected.</b> We may collect personal information directly from you from applications, forms, or communications we receive from you, or from other sources on your behalf, in connection with our provision of products or services to you. We may also collect browsing information from your Internet browser, computer, mobile device or similar equipment. This browsing information is generic and reveals nothing personal about the user.</p>
<p><b>Use of Your Information.</b> We may use your information to provide products and services to you (or someone on your behalf), to improve our products and services, and to communicate with you about our products and services. We do not give or sell your personal information to parties outside of FNF for their use to market their products or services to you.</p>	<p><b>Security Of Your Information.</b> We utilize a combination of security technologies, procedures and safeguards to help protect your information from unauthorized access, use and/or disclosure. We communicate to our employees about the need to protect personal information.</p>
<p><b>Choices With Your Information.</b> Your decision to submit personal information is entirely up to you. You can opt-out of certain disclosures or use of your information or choose to not provide any personal information to us.</p>	<p><b>When We Share Information.</b> We may disclose your information to third parties providing you products and services on our behalf, law enforcement agencies or governmental authorities, as required by law, and to parties with whom you authorize us to share your information.</p>
<p><b>Information From Children.</b> We do not knowingly collect information from children under the age of 13, and our websites are not intended to attract children.</p>	<p><b>Privacy Outside the Website.</b> We are not responsible for the privacy practices of third parties, even if our website links to those parties’ websites.</p>
<p><b>Access and Correction.</b> If you desire to see the information collected about you and/or correct any inaccuracies, please contact us in the manner specified in this Privacy Notice.</p>	<p><b>Do Not Track Disclosures.</b> We do not recognize “do not track” requests from Internet browsers and similar devices.</p>
<p><b>The California Online Privacy Protection Act.</b> Certain FNF websites collect information on behalf of mortgage loan servicers. The mortgage loan servicer is responsible for taking action or making changes to any consumer information submitted through those websites.</p>	<p><b>International Use.</b> By providing us with your information, you consent to the transfer, processing and storage of such information outside your country of residence, as well as the fact that we will handle such information consistent with this Privacy Notice.</p>
<p><b>Your Consent To This Privacy Notice.</b> By submitting information to us and using our websites, you are accepting and agreeing to the terms of this Privacy Notice.</p>	<p><b>Contact FNF.</b> If you have questions or wish to contact us regarding this Privacy Notice, please use the contact information provided at the end of this Privacy Notice.</p>

# FIDELITY NATIONAL FINANCIAL, INC.

## PRIVACY NOTICE

FNF respects and is committed to protecting your privacy. We pledge to take reasonable steps to protect your Personal Information (as defined herein) and to ensure your information is used in compliance with this Privacy Notice.

This Privacy Notice is only in effect for information collected and/or owned by or on behalf of FNF, including collection through any FNF website or online services offered by FNF (collectively, the “Website”), as well as any information collected offline (e.g., paper documents). The provision of this Privacy Notice to you does not create any express or implied relationship, nor create any express or implied duty or other obligation, between FNF and you.

### **Types of Information Collected**

We may collect two types of information: Personal Information and Browsing Information.

**Personal Information.** The types of personal information FNF collects may include, but are not limited to:

- contact information (e.g., name, address, phone number, email address);
- social security number (SSN), driver’s license, and other government ID numbers; and
- financial account or loan information.

**Browsing Information.** The types of browsing information FNF collects may include, but are not limited to:

- Internet Protocol (or IP) address or device ID/UDID, protocol and sequence information;
- browser language;
- browser type;
- domain name system requests;
- browsing history;
- number of clicks;
- hypertext transfer protocol headers; and
- application client and server banners.

### **How Information is Collected**

In the course of our business, we may collect *Personal Information* about you from the following sources:

- applications or other forms we receive from you or your authorized representative, whether electronic or paper;
- communications to us from you or others;
- information about your transactions with, or services performed by, us, our affiliates or others; and
- information from consumer or other reporting agencies and public records that we either obtain directly from those entities, or from our affiliates or others.

We may collect *Browsing Information* from you as follows:

- **Browser Log Files.** Our servers automatically log, collect and record certain Browsing Information about each visitor to the Website. The Browsing Information includes only generic information and reveals nothing personal about the user.
- **Cookies.** From time to time, FNF may send a “cookie” to your computer when you visit the Website. A cookie is a

small piece of data that is sent to your Internet browser from a web server and stored on your computer’s hard drive. When you visit the Website again, the cookie allows the Website to recognize your computer, with the goal of providing an optimized user experience. Cookies may store user preferences and other information. You can choose not to accept cookies by changing the settings of your Internet browser. If you choose not to accept cookies, then some functions of the Website may not work as intended.

### **Use of Collected Information**

Information collected by FNF is used for three main purposes:

- To provide products and services to you, or to one or more third party service providers who are performing services on your behalf or in connection with a transaction involving you;
- To improve our products and services; and
- To communicate with you and to inform you about FNF’s products and services.

### **When We Share Information**

We may share your Personal Information (excluding information we receive from consumer or other credit reporting agencies) and Browsing Information with certain individuals and companies, as permitted by law, without first obtaining your authorization. Such disclosures may include, without limitation, the following:

- to agents, representatives, or others to provide you with services or products you have requested, and to enable us to detect or prevent criminal activity, fraud, or material misrepresentation or nondisclosure;
- to third-party contractors or service providers who provide services or perform other functions on our behalf;
- to law enforcement or other governmental authority in connection with an investigation, or civil or criminal subpoenas or court orders; and/or
- to other parties authorized to receive the information in connection with services provided to you or a transaction involving you.

We may disclose Personal Information and/or Browsing Information when required by law or in the good-faith belief that such disclosure is necessary to:

- comply with a legal process or applicable laws;
- enforce this Privacy Notice;
- investigate or respond to claims that any information provided by you violates the rights of a third party; or
- protect the rights, property or personal safety of FNF, its users or the public.

We make efforts to ensure third party contractors and service providers who provide services or perform functions on our behalf protect your information. We limit use of your information to the purposes for which the information was provided. We do not give or sell your information to third parties for their own direct marketing use.

We reserve the right to transfer your Personal Information, Browsing Information, as well as any other information, in connection with the sale or other disposition of all or part of the

FNF business and/or assets, or in the event of our bankruptcy, reorganization, insolvency, receivership or an assignment for the benefit of creditors. You expressly agree and consent to the use and/or transfer of this information in connection with any of the above-described proceedings. We cannot and will not be responsible for any breach of security by any third party or for any actions of any third party that receives any of the information that is disclosed to us.

### **Choices With Your Information**

Whether you submit your information to FNF is entirely up to you. If you decide not to submit your information, FNF may not be able to provide certain products or services to you. You may choose to prevent FNF from using your information under certain circumstances (“opt out”). You may opt out of receiving communications from us about our products and/or services.

### **Security And Retention Of Information**

FNF is committed to protecting the information you share with us and utilizes a combination of security technologies, procedures and safeguards to help protect it from unauthorized access, use and/or disclosure. FNF trains its employees on privacy practices and on FNF’s privacy and information security policies. FNF works hard to retain information related to you only as long as reasonably necessary for business and/or legal purposes.

### **Information From Children**

The Website is meant for adults. The Website is not intended or designed to attract children under the age of thirteen (13). We do not collect Personal Information from any person that we know to be under the age of thirteen (13) without permission from a parent or guardian.

### **Privacy Outside the Website**

The Website may contain links to other websites, including links to websites of third party service providers. FNF is not and cannot be responsible for the privacy practices or the content of any of those other websites.

### **International Users**

Because FNF’s headquarters is located in the United States, we may transfer your Personal Information and/or Browsing Information to the United States. By using our website and providing us with your Personal Information and/or Browsing Information, you understand and consent to the transfer, processing and storage of such information outside your country of residence, as well as the fact that we will handle such information consistent with this Privacy Notice.

### **Do Not Track Disclosures**

Currently, our policy is that we do not recognize “do not track” requests from Internet browsers and similar devices.

### **The California Online Privacy Protection Act**

For some websites which FNF or one of its companies owns, such as the Customer CareNet (“CCN”), FNF is acting as a third party service provider to a mortgage loan servicer. In those

instances, we may collect certain information on behalf of that mortgage loan servicer, including:

- first and last name;
- property address;
- user name and password;
- loan number;
- social security number - masked upon entry;
- email address;
- security questions and answers; and
- IP address.

The information you submit is then transferred to your mortgage loan servicer by way of CCN. **The mortgage loan servicer is responsible for taking action or making changes to any consumer information submitted through this website. For example, if you believe that your payment or user information is incorrect, you must contact your mortgage loan servicer.**

CCN does not share consumer information with third parties, other than those with which the mortgage loan servicer has contracted to interface with the CCN application. All sections of this Privacy Notice apply to your interaction with CCN, except for the sections titled Choices with Your Information, and Access and Correction. If you have questions regarding the choices you have with regard to your personal information or how to access or correct your personal information, contact your mortgage loan servicer.

### **Access and Correction**

To access your Personal Information in the possession of FNF and correct any inaccuracies, please contact us by email at [privacy@fnf.com](mailto:privacy@fnf.com) or by mail at:

Fidelity National Financial, Inc.  
601 Riverside Avenue  
Jacksonville, Florida 32204  
Attn: Chief Privacy Officer

### **Your Consent To This Privacy Notice**

By submitting Personal Information and/or Browsing Information to FNF, you consent to the collection and use of information by FNF in compliance with this Privacy Notice. We reserve the right to make changes to this Privacy Notice. If we change this Privacy Notice, we will post the revised version on the Website.

### **Contact FNF**

Please send questions and/or comments related to this Privacy Notice by email at [privacy@fnf.com](mailto:privacy@fnf.com) or by mail at:

Fidelity National Financial, Inc.  
601 Riverside Avenue  
Jacksonville, Florida 32204  
Attn: Chief Privacy Officer

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EFFECTIVE AS OF APRIL 1, 2016



## Notice of Available Discounts

Pursuant to Section 2355.3 in Title 10 of the California Code of Regulations Fidelity National Financial, Inc. and its subsidiaries ("FNF") must deliver a notice of each discount available under our current rate filing along with the delivery of escrow instructions, a preliminary report or commitment. Please be aware that the provision of this notice does not constitute a waiver of the consumer's right to be charged the field rate. As such, your transaction may not qualify for the below discounts.

You are encouraged to discuss the applicability of one or more of the below discounts with a Company representative. These discounts are generally described below; consult the rate manual for a full description of the terms, conditions and requirements for each discount. These discounts only apply to transaction involving services rendered by the FNF Family of Companies. This notice only applies to transactions involving property improved with a one-to-four family residential dwelling.

### **FNF Underwritten Title Company**

CTC - Chicago Title Company

### **FNF Underwriter**

CTIC - Chicago Title Insurance Company

### **Available Discounts**

#### **CREDIT FOR PRELIMINARY REPORTS AND/OR COMMITMENTS ON SUBSEQUENT POLICIES (CTIC)**

Where no major change in the title has occurred since the issuance of the original report or commitment, the order may be reopened within 12 months and all or a portion of the charge previously paid for the report or commitment may be credited on a subsequent policy charge within the following time period from the date of the report.

#### **DISASTER LOANS (CTIC)**

The charge for a lender's Policy (Standard or Extended coverage) covering the financing or refinancing by an owner of record, within 24 months of the date of a declaration of a disaster area by the government of the United States or the State of California on any land located in said area, which was partially or totally destroyed in the disaster, will be 50% of the appropriate title insurance rate.

#### **CHURCHES OR CHARITABLE NON-PROFIT ORGANIZATIONS (CTIC)**

On properties used as a church or for charitable purposes within the scope of the normal activities of such entities, provided said charge is normally the church's obligation the charge for an owner's policy shall be 50% to 70% of the appropriate title insurance rate, depending on the type of coverage selected. The charge for a lender's policy shall be 40% to 50% of the appropriate title insurance rate, depending on the type of coverage selected.

#### **EMPLOYEE RATE (CTC and CTIC)**

No charge shall be made to employees (including employees on approved retirement) of the Company or its underwritten, subsidiary title companies for policies or escrow services in connection with financing, refinancing, sale or purchase of the employees' bona fide home property. Waiver of such charges is authorized only in connection with those costs which the employee would be obligated to pay, by established custom, as a party to the transaction.

**ATTACHMENT ONE**

**CALIFORNIA LAND TITLE ASSOCIATION  
STANDARD COVERAGE POLICY – 1990**

**EXCLUSIONS FROM COVERAGE**

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building or zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien, or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
- (b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.
3. Defects, liens, encumbrances, adverse claims or other matters:
  - (a) whether or not recorded in the public records at Date of Policy, but created, suffered, assumed or agreed to by the insured claimant;
  - (b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;
  - (c) resulting in no loss or damage to the insured claimant;
  - (d) attaching or created subsequent to Date of Policy; or
  - (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the insured mortgage or for the estate or interest insured by this policy.
4. Unenforceability of the lien of the insured mortgage because of the inability or failure of the insured at Date of Policy, or the inability or failure of any subsequent owner of the indebtedness, to comply with the applicable doing business laws of the state in which the land is situated.
5. Invalidity or unenforceability of the lien of the insured mortgage, or claim thereof, which arises out of the transaction evidenced by the insured mortgage and is based upon usury or any consumer credit protection or truth in lending law.
6. Any claim, which arises out of the transaction vesting in the insured the estate of interest insured by this policy or the transaction creating the interest of the insured lender, by reason of the operation of federal bankruptcy, state insolvency or similar creditors' rights laws.

**EXCEPTIONS FROM COVERAGE - SCHEDULE B, PART I**

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.  
Proceedings by a public agency which may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the public records.
2. Any facts, rights, interests, or claims which are not shown by the public records but which could be ascertained by an inspection of the land or which may be asserted by persons in possession thereof.
3. Easements, liens or encumbrances, or claims thereof, not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b) or (c) are shown by the public records.
6. Any lien or right to a lien for services, labor or material not shown by the public records.

**CLTA HOMEOWNER'S POLICY OF TITLE INSURANCE (12-02-13)  
ALTA HOMEOWNER'S POLICY OF TITLE INSURANCE**

**EXCLUSIONS**

In addition to the Exceptions in Schedule B, You are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of those portions of any law or government regulation concerning:
  - a. building;
  - b. zoning;
  - c. land use;
  - d. improvements on the Land;
  - e. land division; and
  - f. environmental protection.This Exclusion does not limit the coverage described in Covered Risk 8.a., 14, 15, 16, 18, 19, 20, 23 or 27.
2. The failure of Your existing structures, or any part of them, to be constructed in accordance with applicable building codes. This Exclusion does not limit the coverage described in Covered Risk 14 or 15.
3. The right to take the Land by condemning it. This Exclusion does not limit the coverage described in Covered Risk 17.
4. Risks:
  - a. that are created, allowed, or agreed to by You, whether or not they are recorded in the Public Records;
  - b. that are Known to You at the Policy Date, but not to Us, unless they are recorded in the Public Records at the Policy Date;

- c. that result in no loss to You; or
  - d. that first occur after the Policy Date - this does not limit the coverage described in Covered Risk 7, 8.e., 25, 26, 27 or 28.
5. Failure to pay value for Your Title.
  6. Lack of a right:
    - a. to any land outside the area specifically described and referred to in paragraph 3 of Schedule A; and
    - b. in streets, alleys, or waterways that touch the Land.
 This Exclusion does not limit the coverage described in Covered Risk 11 or 21.
  7. The transfer of the Title to You is invalid as a preferential transfer or as a fraudulent transfer or conveyance under federal bankruptcy, state insolvency, or similar creditors' rights laws.
  8. Contamination, explosion, fire, flooding, vibration, fracturing, earthquake, or subsidence.
  9. Negligence by a person or an Entity exercising a right to extract or develop minerals, water, or any other substances.

**LIMITATIONS ON COVERED RISKS**

Your insurance for the following Covered Risks is limited on the Owner's Coverage Statement as follows:

- For Covered Risk 16, 18, 19, and 21 Your Deductible Amount and Our Maximum Dollar Limit of Liability shown in Schedule A.

The deductible amounts and maximum dollar limits shown on Schedule A are as follows:

	Your Deductible Amount	Our Maximum Dollar Limit of Liability
Covered Risk 16:	1.00% % of Policy Amount Shown in Schedule A or \$2,500.00 (whichever is less)	\$ 10,000.00
Covered Risk 18:	1.00% % of Policy Amount Shown in Schedule A or \$5,000.00 (whichever is less)	\$ 25,000.00
Covered Risk 19:	1.00% of Policy Amount Shown in Schedule A or \$5,000.00 (whichever is less)	\$ 25,000.00
Covered Risk 21:	1.00% of Policy Amount Shown in Schedule A or \$2,500.00 (whichever is less)	\$ 5,000.00

**2006 ALTA LOAN POLICY (06-17-06)**

**EXCLUSIONS FROM COVERAGE**

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
  - (i) the occupancy, use, or enjoyment of the Land;
  - (ii) the character, dimensions, or location of any improvement erected on the Land;
  - (iii) the subdivision of land; or
  - (iv) environmental protection;
 or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
- (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
  - (a) created, suffered, assumed, or agreed to by the Insured Claimant;
  - (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
  - (c) resulting in no loss or damage to the Insured Claimant;
  - (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 13 or 14); or
  - (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law.
6. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
  - (a) a fraudulent conveyance or fraudulent transfer, or
  - (b) a preferential transfer for any reason not stated in Covered Risk 13(b) of this policy.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the Insured Mortgage in the Public Records. This Exclusion does not modify or limit the coverage provided under Covered Risk 11(b).

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

**EXCEPTIONS FROM COVERAGE**

(Except as provided in Schedule B - Part II, (t(or T)his policy does not insure against loss or damage, and the Company will not pay costs, attorneys' fees or expenses, that arise by reason of:

## (PART I

(The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material not shown by the Public Records.

## PART II

In addition to the matters set forth in Part I of this Schedule, the Title is subject to the following matters, and the Company insures against loss or damage sustained in the event that they are not subordinate to the lien of the Insured Mortgage:)

### 2006 ALTA OWNER'S POLICY (06-17-06)

#### EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
  - (i) the occupancy, use, or enjoyment of the Land;
  - (ii) the character, dimensions, or location of any improvement erected on the Land;
  - (iii) the subdivision of land; or
  - (iv) environmental protection;or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
- (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
  - (a) created, suffered, assumed, or agreed to by the Insured Claimant;
  - (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
  - (c) resulting in no loss or damage to the Insured Claimant;
  - (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 9 and 10); or
  - (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Title.
4. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction vesting the Title as shown in Schedule A, is
  - (a) a fraudulent conveyance or fraudulent transfer; or
  - (b) a preferential transfer for any reason not stated in Covered Risk 9 of this policy.
5. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the deed or other instrument of transfer in the Public Records that vests Title as shown in Schedule A.

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

#### EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage, and the Company will not pay costs, attorneys' fees or expenses, that arise by reason of:

(The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown in the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and that are not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material not shown by the Public Records.
7. (Variable exceptions such as taxes, easements, CC&R's, etc. shown here.)



**ALTA EXPANDED COVERAGE RESIDENTIAL LOAN POLICY (12-02-13)**

**EXCLUSIONS FROM COVERAGE**

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
  - (i) the occupancy, use, or enjoyment of the Land;
  - (ii) the character, dimensions, or location of any improvement erected on the Land;
  - (iii) the subdivision of land; or
  - (iv) environmental protection;or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
- (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
  - (a) created, suffered, assumed, or agreed to by the Insured Claimant;
  - (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
  - (c) resulting in no loss or damage to the Insured Claimant;
  - (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27 or 28); or
  - (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury, or any consumer credit protection or truth-in-lending law. This Exclusion does not modify or limit the coverage provided in Covered Risk 26.
6. Any claim of invalidity, unenforceability or lack of priority of the lien of the Insured Mortgage as to Advances or modifications made after the Insured has Knowledge that the vestee shown in Schedule A is no longer the owner of the estate or interest covered by this policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching subsequent to Date of Policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11(b) or 25.
8. The failure of the residential structure, or any portion of it, to have been constructed before, on or after Date of Policy in accordance with applicable building codes. This Exclusion does not modify or limit the coverage provided in Covered Risk 5 or 6.
9. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
  - (a) a fraudulent conveyance or fraudulent transfer, or
  - (b) a preferential transfer for any reason not stated in Covered Risk 27(b) of this policy.
10. Contamination, explosion, fire, flooding, vibration, fracturing, earthquake, or subsidence.
11. Negligence by a person or an Entity exercising a right to extract or develop minerals, water, or any other substances.

Insert Map here

**OWNER'S DECLARATION**

The undersigned hereby declares as follows:

1. (Fill in the applicable paragraph and strike the other)
  - a. Declarant ("Owner") is the owner or lessee, as the case may be, of certain premises located at \_\_\_\_\_ further described as follows: See Preliminary Report/Commitment No. 00064691-994-LT2-JC for full legal description (the "Land").
  - b. Declarant is the \_\_\_\_\_ of \_\_\_\_\_ ("Owner"), which is the owner or lessee, as the case may be, of certain premises located at \_\_\_\_\_ further described as follows: See Preliminary Report/Commitment No. 00064691-994-LT2-JC for full legal description (the "Land").
2. (Fill in the applicable paragraph and strike the other)
  - a. During the period of six months immediately preceding the date of this declaration no work has been done, no surveys or architectural or engineering plans have been prepared, and no materials have been furnished in connection with the erection, equipment, repair, protection or removal of any building or other structure on the Land or in connection with the improvement of the Land in any manner whatsoever.
  - b. During the period of six months immediately preceding the date of this declaration certain work has been done and materials furnished in connection with \_\_\_\_\_ upon the Land in the approximate total sum of \$\_\_\_\_\_, but no work whatever remains to be done and no materials remain to be furnished to complete the construction in full compliance with the plans and specifications, nor are there any unpaid bills incurred for labor and materials used in making such improvements or repairs upon the Land, or for the services of architects, surveyors or engineers, except as follows: \_\_\_\_\_. Owner, by the undersigned Declarant, agrees to and does hereby indemnify and hold harmless Chicago Title Company against any and all claims arising therefrom.
3. Owner has not previously conveyed the Land; is not a debtor in bankruptcy (and if a partnership, the general partner thereof is not a debtor in bankruptcy); and has not received notice of any pending court action affecting the title to the Land.
4. Except as shown in the above-referenced Preliminary Report/Commitment, there are no unpaid or unsatisfied mortgages, deeds of trust, Uniform Commercial Code financing statements, regular assessments, special assessments, periodic assessments or any assessment from any source, claims of lien, special assessments, or taxes that constitute a lien against the Land or that affect the Land but have not been recorded in the public records. There are no violations of the covenants, conditions and restrictions as shown in the above-referenced Preliminary Report/Commitment.
5. The Land is currently in use as \_\_\_\_\_; \_\_\_\_\_ occupy/occupies the Land; and the following are all of the leases or other occupancy rights affecting the Land:  
\_\_\_\_\_
6. There are no other persons or entities that assert an ownership interest in the Land, nor are there unrecorded easements, claims of easement, or boundary disputes that affect the Land.
7. There are no outstanding options to purchase or rights of first refusal affecting the Land.

This declaration is made with the intention that Chicago Title Company (the "Company") and its policy issuing agents will rely upon it in issuing their title insurance policies and endorsements. Owner, by the undersigned Declarant, agrees to indemnify the Company against loss or damage (including attorneys fees, expenses, and costs) incurred by the Company as a result of any untrue statement made herein.

I declare under penalty of perjury that the foregoing is true and correct and that this declaration was executed on \_\_\_\_ at \_\_\_\_\_.

Signature: \_\_\_\_\_

**OWNER'S DECLARATION**

The undersigned hereby declares as follows:

1. (Fill in the applicable paragraph and strike the other)
  - a. Declarant ("Owner") is the owner or lessee, as the case may be, of certain premises located at \_\_\_\_\_ further described as follows: See Preliminary Report/Commitment No. 00064691-994-LT2-JC for full legal description (the "Land").
  - b. Declarant is the \_\_\_\_\_ of \_\_\_\_\_ ("Owner"), which is the owner or lessee, as the case may be, of certain premises located at \_\_\_\_\_ further described as follows: See Preliminary Report/Commitment No. 00064691-994-LT2-JC for full legal description (the "Land").
2. (Fill in the applicable paragraph and strike the other)
  - a. During the period of six months immediately preceding the date of this declaration no work has been done, no surveys or architectural or engineering plans have been prepared, and no materials have been furnished in connection with the erection, equipment, repair, protection or removal of any building or other structure on the Land or in connection with the improvement of the Land in any manner whatsoever.
  - b. During the period of six months immediately preceding the date of this declaration certain work has been done and materials furnished in connection with \_\_\_\_\_ upon the Land in the approximate total sum of \$\_\_\_\_\_, but no work whatever remains to be done and no materials remain to be furnished to complete the construction in full compliance with the plans and specifications, nor are there any unpaid bills incurred for labor and materials used in making such improvements or repairs upon the Land, or for the services of architects, surveyors or engineers, except as follows: \_\_\_\_\_. Owner, by the undersigned Declarant, agrees to and does hereby indemnify and hold harmless Chicago Title Company against any and all claims arising therefrom.
3. Owner has not previously conveyed the Land; is not a debtor in bankruptcy (and if a partnership, the general partner thereof is not a debtor in bankruptcy); and has not received notice of any pending court action affecting the title to the Land.
4. Except as shown in the above-referenced Preliminary Report/Commitment, there are no unpaid or unsatisfied mortgages, deeds of trust, Uniform Commercial Code financing statements, regular assessments, special assessments, periodic assessments or any assessment from any source, claims of lien, special assessments, or taxes that constitute a lien against the Land or that affect the Land but have not been recorded in the public records. There are no violations of the covenants, conditions and restrictions as shown in the above-referenced Preliminary Report/Commitment.
5. The Land is currently in use as \_\_\_\_\_; \_\_\_\_\_ occupy/occupies the Land; and the following are all of the leases or other occupancy rights affecting the Land:  
\_\_\_\_\_
6. There are no other persons or entities that assert an ownership interest in the Land, nor are there unrecorded easements, claims of easement, or boundary disputes that affect the Land.
7. There are no outstanding options to purchase or rights of first refusal affecting the Land.

This declaration is made with the intention that Chicago Title Company (the "Company") and its policy issuing agents will rely upon it in issuing their title insurance policies and endorsements. Owner, by the undersigned Declarant, agrees to indemnify the Company against loss or damage (including attorneys fees, expenses, and costs) incurred by the Company as a result of any untrue statement made herein.

I declare under penalty of perjury that the foregoing is true and correct and that this declaration was executed on \_\_\_\_ at \_\_\_\_\_.

Signature: \_\_\_\_\_

## **APPENDIX C**

### **EDR ENVIRONMENTAL RADIUS MAP REPORT**



**Residential and Vacant**

4343 and 4371 E. Live Oak Avenue  
Arcadia, CA 91006

Inquiry Number: 4822613.2s  
January 09, 2017

**The EDR Radius Map™ Report with GeoCheck®**



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
Executive Summary .....	ES1
Overview Map .....	2
Detail Map .....	3
Map Findings Summary .....	4
Map Findings .....	8
Orphan Summary .....	68
Government Records Searched/Data Currency Tracking .....	GR-1
 <b><u>GEOCHECK ADDENDUM</u></b>	
Physical Setting Source Addendum .....	A-1
Physical Setting Source Summary .....	A-2
Physical Setting Source Map .....	A-8
Physical Setting Source Map Findings .....	A-9
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) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

4343 AND 4371 E. LIVE OAK AVENUE  
ARCADIA, CA 91006

#### COORDINATES

Latitude (North): 34.1111870 - 34° 6' 40.27"  
Longitude (West): 118.0077720 - 118° 0' 27.97"  
Universal Transverse Mercator: Zone 11  
UTM X (Meters): 407052.0  
UTM Y (Meters): 3774748.0  
Elevation: 353 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5630799 EL MONTE, CA
Version Date:	2012
Northeast Map:	5630601 AZUSA, CA
Version Date:	2012
Southeast Map:	5619056 BALDWIN PARK, CA
Version Date:	2012
Northwest Map:	5636853 MOUNT WILSON, CA
Version Date:	2012

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140515
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:  
4343 AND 4371 E. LIVE OAK AVENUE  
ARCADIA, CA 91006

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">Reg</a>	SAN GABRIEL VALLEY		AOCONCERN	Same	1246, 0.236, North
<a href="#">A1</a>	R & P UNION SERVICE	4323 LIVE OAK AVE	EDR Hist Auto	Lower	358, 0.068, WSW
<a href="#">A2</a>	JOHN'S UNION SERVICE	4323 LIVE OAK	EDR Hist Auto	Lower	358, 0.068, WSW
<a href="#">A3</a>	KRANTZ UNION SERVICE	4323 E LIVE OAK	EDR Hist Auto	Lower	358, 0.068, WSW
<a href="#">B4</a>	G & G LORENA FUEL	4332 LIVE OAK AVE E	LUST, HIST CORTESE	Lower	438, 0.083, SSW
<a href="#">B5</a>		4332 E LIVE OAK AVE	EDR Hist Auto	Lower	438, 0.083, SSW
<a href="#">B6</a>	OFFICIAL CAR WASH	4332 E LIVE OAK	HIST UST	Lower	438, 0.083, SSW
<a href="#">B7</a>	G&G LORENA FUEL	4332 E LIVE OAK AVE	UST	Lower	438, 0.083, SSW
<a href="#">C8</a>	LITTLE JOE'S TEXACO	4305 LIVE OAK	EDR Hist Auto	Lower	544, 0.103, WSW
<a href="#">C9</a>	JOHN'S TEXACO SERVIC	4305 E LIVE OAK	EDR Hist Auto	Lower	544, 0.103, WSW
<a href="#">C10</a>	GEORGE'S LAUNDRETTE	4269 E LIVE OAK	EDR Hist Cleaner	Lower	659, 0.125, WSW
<a href="#">11</a>	S L S AND N INC	128 E LIVE OAK AVE	WMUDS/SWAT, WDS	Lower	791, 0.150, East
<a href="#">12</a>	PASEDNA CITY LANDFI	LIVE OAK NEAR PECK	WMUDS/SWAT	Lower	971, 0.184, East
<a href="#">D13</a>	F&M AUTO WRECKING IN	3333 A S PECK RD	AST, NPDES	Lower	1066, 0.202, ENE
<a href="#">D14</a>	PICK-A-PART AUTO DIS	3333 S PECK RD	RCRA-LQG	Lower	1066, 0.202, ENE
<a href="#">D15</a>	AMERICAN RECYCLING I	3333 PECK RD	LUST, HAZNET, NPDES	Lower	1066, 0.202, ENE
<a href="#">D16</a>	CHICAGO PARK	5700 PECK	SLIC	Lower	1071, 0.203, ENE
<a href="#">E17</a>	PECK ROAD GRAVEL PIT	128 EAST LIVE OAK AV	SWF/LF	Lower	1136, 0.215, East
<a href="#">E18</a>	PECK ROAD GRAVEL PIT	128 EAST LIVE OAK AV	SWF/LF	Lower	1136, 0.215, East
<a href="#">E19</a>	REBECCA LAND/SHATTO	124 LIVE OAK AVE	LUST, SWEEPS UST, HIST UST, HIST CORTESE	Lower	1146, 0.217, East
<a href="#">F20</a>	LA CO DPW SEWER MNT-	2849 MYRTLE AVE	UST	Higher	1241, 0.235, ENE
<a href="#">F21</a>	SEWER MAINTENANCE (N	2849 S MYRTLE	SWEEPS UST, HIST UST, LOS ANGELES CO. HMS	Higher	1241, 0.235, ENE
<a href="#">E22</a>	PECK ROAD GRAVEL	128 E LIVE OAK AVE	AST	Lower	1244, 0.236, East
<a href="#">23</a>	PIC A PART AUTO SALV	4414 LIVE OAK AVE E	SWF/LF, LUST, SWEEPS UST, HIST CORTESE	Lower	1297, 0.246, East
<a href="#">G24</a>	LA CO DPW SEWER MNT-	2849 MYRTLE	HIST CORTESE	Higher	1400, 0.265, ENE
<a href="#">G25</a>	LA CO DPW SEWER EAST	2849 MYRTLE AVE	LUST, LOS ANGELES CO. HMS	Higher	1400, 0.265, ENE
<a href="#">26</a>	KING'S GAS MARKET &	110 LONGDEN AVE #A	LUST, HIST CORTESE, LOS ANGELES CO. HMS	Higher	1510, 0.286, NE
<a href="#">H27</a>	HAROLD SIMPSON GRADI	200 EAST LIVE OAK AV	SWF/LF, WMUDS/SWAT, LOS ANGELES CO. HMS	Lower	1580, 0.299, ESE
<a href="#">H28</a>	SIMPSON GRADING - PA	200 E. LIVE OAK AVEN	SWF/LF, LDS	Lower	1580, 0.299, ESE
<a href="#">I29</a>	SAN MARINO CITY DUMP	212 E LIVE OAK AVE	SWF/LF	Higher	1595, 0.302, East
<a href="#">I30</a>	IRWINDALE DISP SITE	212 LIVE OAK AVE.	WMUDS/SWAT	Higher	1595, 0.302, East
<a href="#">J31</a>	CITY OF SOLVANG MUNI	160 LONGDEN	HIST CORTESE	Higher	1772, 0.336, ENE
<a href="#">J32</a>	LA CO DPW FMD LONGDE	160 E LONGDEN AVE	LUST	Higher	1772, 0.336, ENE
<a href="#">J33</a>	LONGDEN YARD	160 LONGDEN AVE E	LUST	Higher	1772, 0.336, ENE
<a href="#">34</a>	ARCO GAS	4126 LIVE OAK AVE E	LUST, HIST CORTESE	Lower	1902, 0.360, WSW
<a href="#">K35</a>	LANDMARK MATERIALS	242 LIVE OAK	SLIC	Higher	2015, 0.382, East
<a href="#">K36</a>	RECYCLING CENTER	242 E. LIVE OAKS AVE	WMUDS/SWAT	Higher	2080, 0.394, East
<a href="#">37</a>	LONGDEN AVE DISPOSAL	201-545 LONGDEN AVEN	SWF/LF	Lower	2178, 0.412, ENE
<a href="#">38</a>	WESTERN EMULSION CO.	284 LIVE OAK	Notify 65	Higher	2820, 0.534, East

MAPPED SITES SUMMARY

Target Property Address:  
4343 AND 4371 E. LIVE OAK AVENUE  
ARCADIA, CA 91006

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">39</a>	KARDASHIAN AND MAX G	INTERSECTION OF KARD	ENVIROSTOR	Lower	4156, 0.787, SSE
<a href="#">40</a>	SUPERIOR FAST FREIGH	600 EAST LIVE OAK AV	ENVIROSTOR, LOS ANGELES CO. HMS, NPDES	Lower	4829, 0.915, East



# EXECUTIVE SUMMARY

## TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

## DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal NPL site list***

NPL..... National Priority List  
Proposed NPL..... Proposed National Priority List Sites  
NPL LIENS..... Federal Superfund Liens

### ***Federal Delisted NPL site list***

Delisted NPL..... National Priority List Deletions

### ***Federal CERCLIS list***

FEDERAL FACILITY..... Federal Facility Site Information listing  
SEMS..... Superfund Enterprise Management System

### ***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

### ***Federal RCRA CORRACTS facilities list***

CORRACTS..... Corrective Action Report

### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

### ***Federal RCRA generators list***

RCRA-SQG..... RCRA - Small Quantity Generators  
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

## EXECUTIVE SUMMARY

### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

### ***State- and tribal - equivalent NPL***

RESPONSE..... State Response Sites

### ***State and tribal leaking storage tank lists***

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

### ***State and tribal registered storage tank lists***

FEMA UST..... Underground Storage Tank Listing

INDIAN UST..... Underground Storage Tanks on Indian Land

### ***State and tribal voluntary cleanup sites***

INDIAN VCP..... Voluntary Cleanup Priority Listing

VCP..... Voluntary Cleanup Program Properties

### ***State and tribal Brownfields sites***

BROWNFIELDS..... Considered Brownfields Sites Listing

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Local Brownfield lists***

US BROWNFIELDS..... A Listing of Brownfields Sites

#### ***Local Lists of Landfill / Solid Waste Disposal Sites***

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***

US HIST CDL..... Delisted National Clandestine Laboratory Register

HIST Cal-Sites..... Historical Calsites Database

SCH..... School Property Evaluation Program

CDL..... Clandestine Drug Labs

Toxic Pits..... Toxic Pits Cleanup Act Sites

US CDL..... National Clandestine Laboratory Register

#### ***Local Lists of Registered Storage Tanks***

CA FID UST..... Facility Inventory Database

## EXECUTIVE SUMMARY

### **Local Land Records**

LIENS..... Environmental Liens Listing  
LIENS 2..... CERCLA Lien Information  
DEED..... Deed Restriction Listing

### **Records of Emergency Release Reports**

HMIRS..... Hazardous Materials Information Reporting System  
CHMIRS..... California Hazardous Material Incident Report System  
LDS..... Land Disposal Sites Listing  
MCS..... Military Cleanup Sites Listing  
SPILLS 90..... SPILLS 90 data from FirstSearch

### **Other Ascertainable Records**

RCRA NonGen / NLR..... RCRA - Non Generators / No Longer Regulated  
FUDS..... Formerly Used Defense Sites  
DOD..... Department of Defense Sites  
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing  
US FIN ASSUR..... Financial Assurance Information  
EPA WATCH LIST..... EPA WATCH LIST  
2020 COR ACTION..... 2020 Corrective Action Program List  
TSCA..... Toxic Substances Control Act  
TRIS..... Toxic Chemical Release Inventory System  
SSTS..... Section 7 Tracking Systems  
ROD..... Records Of Decision  
RMP..... Risk Management Plans  
RAATS..... RCRA Administrative Action Tracking System  
PRP..... Potentially Responsible Parties  
PADS..... PCB Activity Database System  
ICIS..... Integrated Compliance Information System  
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)  
MLTS..... Material Licensing Tracking System  
COAL ASH DOE..... Steam-Electric Plant Operation Data  
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List  
PCB TRANSFORMER..... PCB Transformer Registration Database  
RADINFO..... Radiation Information Database  
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing  
DOT OPS..... Incident and Accident Data  
CONSENT..... Superfund (CERCLA) Consent Decrees  
INDIAN RESERV..... Indian Reservations  
FUSRAP..... Formerly Utilized Sites Remedial Action Program  
UMTRA..... Uranium Mill Tailings Sites  
LEAD SMELTERS..... Lead Smelter Sites  
US AIRS..... Aerometric Information Retrieval System Facility Subsystem  
US MINES..... Mines Master Index File  
FINDS..... Facility Index System/Facility Registry System  
DOCKET HWC..... Hazardous Waste Compliance Docket Listing  
UXO..... Unexploded Ordnance Sites  
CA BOND EXP. PLAN..... Bond Expenditure Plan  
Cortese..... "Cortese" Hazardous Waste & Substances Sites List  
CUPA Listings..... CUPA Resources List

## EXECUTIVE SUMMARY

DRYCLEANERS.....	Cleaner Facilities
EMI.....	Emissions Inventory Data
ENF.....	Enforcement Action Listing
Financial Assurance.....	Financial Assurance Information Listing
HAZNET.....	Facility and Manifest Data
LOS ANGELES CO. HMS.....	HMS: Street Number List
HWP.....	EnviroStor Permitted Facilities Listing
HWT.....	Registered Hazardous Waste Transporter Database
MINES.....	Mines Site Location Listing
MWMP.....	Medical Waste Management Program Listing
NPDES.....	NPDES Permits Listing
PEST LIC.....	Pesticide Regulation Licenses Listing
PROC.....	Certified Processors Database
LA Co. Site Mitigation.....	Site Mitigation List
UIC.....	UIC Listing
WASTEWATER PITS.....	Oil Wastewater Pits Listing
WDS.....	Waste Discharge System
WIP.....	Well Investigation Program Case List
FUELS PROGRAM.....	EPA Fuels Program Registered Listing
ICE.....	ICE
ABANDONED MINES.....	Abandoned Mines
ECHO.....	Enforcement & Compliance History Information

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR MGP..... EDR Proprietary Manufactured Gas Plants

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

RGA LF..... Recovered Government Archive Solid Waste Facilities List  
RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

# EXECUTIVE SUMMARY

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal RCRA generators list***

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 09/12/2016 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PICK-A-PART AUTO DIS	3333 S PECK RD	ENE 1/8 - 1/4 (0.202 mi.)	D14	21

### ***State- and tribal - equivalent CERCLIS***

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 08/01/2016 has revealed that there are 2 ENVIROSTOR sites within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
KARDASHIAN AND MAX G Facility Id: 19320194 Status: Refer: Other Agency	INTERSECTION OF KARD	SSE 1/2 - 1 (0.787 mi.)	39	62
<b>SUPERIOR FAST FREIGH</b> Facility Id: 19490215 Status: Refer: RWQCB	<b>600 EAST LIVE OAK AV</b>	<b>E 1/2 - 1 (0.915 mi.)</b>	<b>40</b>	<b>63</b>

### ***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the SWF/LF list, as provided by EDR, has revealed that there are 7 SWF/LF sites within



## EXECUTIVE SUMMARY

approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SAN MARINO CITY DUMP Database: SWF/LF (SWIS), Date of Government Version: 08/15/2016 Facility ID: 19-AA-0027 Operational Status: Closed Regulation Status: Permitted	212 E LIVE OAK AVE	E 1/4 - 1/2 (0.302 mi.)	I29	51

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PECK ROAD GRAVEL PIT Database: LOS ANGELES CO. LF, Date of Government Version: 10/17/2016 Site ID: 2264 Status: Active	128 EAST LIVE OAK AV	E 1/8 - 1/4 (0.215 mi.)	E17	31
PECK ROAD GRAVEL PIT Database: LOS ANGELES CO. LF, Date of Government Version: 10/17/2016 Site ID: 12 Status: Closed	128 EAST LIVE OAK AV	E 1/8 - 1/4 (0.215 mi.)	E18	31
<b>PIC A PART AUTO SALV</b> Database: LOS ANGELES CO. LF, Date of Government Version: 10/17/2016 Site ID: 2042 Status: Closed	<b>4414 LIVE OAK AVE E</b>	<b>E 1/8 - 1/4 (0.246 mi.)</b>	<b>23</b>	<b>39</b>
<b>HAROLD SIMPSON GRADI</b> Database: LOS ANGELES CO. LF, Date of Government Version: 10/17/2016 Site ID: 1957 Status: Closed	<b>200 EAST LIVE OAK AV</b>	<b>ESE 1/4 - 1/2 (0.299 mi.)</b>	<b>H27</b>	<b>48</b>
<b>SIMPSON GRADING - PA</b> Database: SWF/LF (SWIS), Date of Government Version: 08/15/2016 Facility ID: 19-AA-0021 Operational Status: Closed Regulation Status: Unpermitted	<b>200 E. LIVE OAK AVEN</b>	<b>ESE 1/4 - 1/2 (0.299 mi.)</b>	<b>H28</b>	<b>50</b>
LONGDEN AVE DISPOSAL Database: SWF/LF (SWIS), Date of Government Version: 08/15/2016 Database: LOS ANGELES CO. LF, Date of Government Version: 10/17/2016 Facility ID: 19-AA-0587 Site ID: 1981 Status: Closed Operational Status: Closed Regulation Status: Unpermitted	201-545 LONGDEN AVEN	ENE 1/4 - 1/2 (0.412 mi.)	37	60

### **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 9 LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LA CO DPW SEWER EAST Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 11/01/2016	2849 MYRTLE AVE	ENE 1/4 - 1/2 (0.265 mi.)	G25	42

## EXECUTIVE SUMMARY

Status: Completed - Case Closed  
 Facility Id: I-03951  
 Status: Case Closed  
 Global Id: T0603702956  
 Global ID: T0603702956

**KING'S GAS MARKET & 110 LONGDEN AVE #A NE 1/4 - 1/2 (0.286 mi.) 26 45**

Database: LUST REG 4, Date of Government Version: 09/07/2004  
 Database: LUST, Date of Government Version: 11/01/2016  
 Status: Completed - Case Closed  
 Facility Id: I-04935  
 Status: Case Closed  
 Global Id: T0603792934  
 Global ID: T0603792934

**LA CO DPW FMD LONGDE 160 E LONGDEN AVE ENE 1/4 - 1/2 (0.336 mi.) J32 53**

Database: LUST, Date of Government Version: 11/01/2016  
 Status: Completed - Case Closed  
 Global Id: T0603702749

**LONGDEN YARD 160 LONGDEN AVE E ENE 1/4 - 1/2 (0.336 mi.) J33 55**

Database: LUST REG 4, Date of Government Version: 09/07/2004  
 Facility Id: I-01038  
 Status: Case Closed  
 Global ID: T0603702749

Lower Elevation	Address	Direction / Distance	Map ID	Page
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<b>G &amp; G LORENA FUEL</b>	<b>4332 LIVE OAK AVE E</b>	<b>SSW 0 - 1/8 (0.083 mi.)</b>	<b>B4</b>	<b>9</b>
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Database: LUST REG 4, Date of Government Version: 09/07/2004  
 Database: LUST, Date of Government Version: 11/01/2016  
 Status: Completed - Case Closed  
 Facility Id: R-20695  
 Status: Case Closed  
 Global Id: T0603705312  
 Global Id: T0603786230  
 Global ID: T0603705312

<b>AMERICAN RECYCLING I</b>	<b>3333 PECK RD</b>	<b>ENE 1/8 - 1/4 (0.202 mi.)</b>	<b>D15</b>	<b>23</b>
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Database: LUST, Date of Government Version: 11/01/2016  
 Status: Open - Site Assessment  
 Global Id: T0603704166

<b>REBECCA LAND/SHATTO</b>	<b>124 LIVE OAK AVE</b>	<b>E 1/8 - 1/4 (0.217 mi.)</b>	<b>E19</b>	<b>32</b>
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Database: LUST REG 4, Date of Government Version: 09/07/2004  
 Database: LUST, Date of Government Version: 11/01/2016  
 Status: Completed - Case Closed  
 Facility Id: R-00132  
 Status: Case Closed  
 Global Id: T0603704513  
 Global ID: T0603704513

<b>PIC A PART AUTO SALV</b>	<b>4414 LIVE OAK AVE E</b>	<b>E 1/8 - 1/4 (0.246 mi.)</b>	<b>23</b>	<b>39</b>
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Database: LUST REG 4, Date of Government Version: 09/07/2004  
 Facility Id: I-14428  
 Status: Preliminary site assessment underway  
 Global ID: T0603704166

<b>ARCO GAS</b>	<b>4126 LIVE OAK AVE E</b>	<b>WSW 1/4 - 1/2 (0.360 mi.)</b>	<b>34</b>	<b>56</b>
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Database: LUST REG 4, Date of Government Version: 09/07/2004  
 Database: LUST, Date of Government Version: 11/01/2016

## EXECUTIVE SUMMARY

Status: Completed - Case Closed  
 Facility Id: R-25496  
 Status: Case Closed  
 Global Id: T0603705512  
 Global ID: T0603705512

SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the SLIC list, as provided by EDR, has revealed that there are 2 SLIC sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LANDMARK MATERIALS Database: SLIC REG 4, Date of Government Version: 11/17/2004	242 LIVE OAK	E 1/4 - 1/2 (0.382 mi.)	K35	58

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CHICAGO PARK Database: SLIC REG 4, Date of Government Version: 11/17/2004 Facility Status: No further action required	5700 PECK	ENE 1/8 - 1/4 (0.203 mi.)	D16	30

### ***State and tribal registered storage tank lists***

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 2 UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LA CO DPW SEWER MNT- Database: UST, Date of Government Version: 09/12/2016 Facility Id: 3951	2849 MYRTLE AVE	ENE 1/8 - 1/4 (0.235 mi.)	F20	36

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
G&G LORENA FUEL Database: UST, Date of Government Version: 09/12/2016 Facility Id: 20695	4332 E LIVE OAK AVE	SSW 0 - 1/8 (0.083 mi.)	B7	14

## EXECUTIVE SUMMARY

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, and dated 07/06/2016 has revealed that there are 2 AST sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>F&amp;M AUTO WRECKING IN</b>	<b>3333 A S PECK RD</b>	<b>ENE 1/8 - 1/4 (0.202 mi.)</b>	<b>D13</b>	<b>18</b>
PECK ROAD GRAVEL	128 E LIVE OAK AVE	E 1/8 - 1/4 (0.236 mi.)	E22	39

### ADDITIONAL ENVIRONMENTAL RECORDS

#### **Local Lists of Landfill / Solid Waste Disposal Sites**

WMUDS/SWAT: The Waste Management Unit Database System is used for program tracking and inventory of waste management units. The source is the State Water Resources Control Board.

A review of the WMUDS/SWAT list, as provided by EDR, and dated 04/01/2000 has revealed that there are 5 WMUDS/SWAT sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
IRWINDALE DISP SITE	212 LIVE OAK AVE.	E 1/4 - 1/2 (0.302 mi.)	I30	52
RECYCLING CENTER	242 E. LIVE OAKS AVE	E 1/4 - 1/2 (0.394 mi.)	K36	59
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>S L S AND N INC</b>	<b>128 E LIVE OAK AVE</b>	<b>E 1/8 - 1/4 (0.150 mi.)</b>	<b>11</b>	<b>15</b>
PASEDNA CITY LANDFI	LIVE OAK NEAR PECK	E 1/8 - 1/4 (0.184 mi.)	12	17
<b>HAROLD SIMPSON GRADI</b>	<b>200 EAST LIVE OAK AV</b>	<b>ESE 1/4 - 1/2 (0.299 mi.)</b>	<b>H27</b>	<b>48</b>

#### **Local Lists of Hazardous waste / Contaminated Sites**

AOCONCERN: San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

A review of the AOCONCERN list, as provided by EDR, and dated 03/30/2009 has revealed that there is 1 AOCONCERN site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SAN GABRIEL VALLEY		N 1/8 - 1/4 (0.236 mi.)	0	8

#### **Local Lists of Registered Storage Tanks**

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are

## EXECUTIVE SUMMARY

3 SWEEPS UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>SEWER MAINTENANCE (N)</b> Status: A Tank Status: A Comp Number: 3951	<b>2849 S MYRTLE</b>	<b>ENE 1/8 - 1/4 (0.235 mi.)</b>	<b>F21</b>	<b>37</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>REBECCA LAND/SHATTO</b> Status: A Tank Status: A Comp Number: 132	<b>124 LIVE OAK AVE</b>	<b>E 1/8 - 1/4 (0.217 mi.)</b>	<b>E19</b>	<b>32</b>
<b>PIC A PART AUTO SALV</b> Comp Number: 14428	<b>4414 LIVE OAK AVE E</b>	<b>E 1/8 - 1/4 (0.246 mi.)</b>	<b>23</b>	<b>39</b>

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 3 HIST UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>SEWER MAINTENANCE (N)</b>	<b>2849 S MYRTLE</b>	<b>ENE 1/8 - 1/4 (0.235 mi.)</b>	<b>F21</b>	<b>37</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
OFFICIAL CAR WASH Facility Id: 00000000505	4332 E LIVE OAK	SSW 0 - 1/8 (0.083 mi.)	B6	12
<b>REBECCA LAND/SHATTO</b>	<b>124 LIVE OAK AVE</b>	<b>E 1/8 - 1/4 (0.217 mi.)</b>	<b>E19</b>	<b>32</b>

### **Other Ascertainable Records**

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSTATES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 7 HIST CORTESE sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LA CO DPW SEWER MNT- Reg Id: I-03951	2849 MYRTLE	ENE 1/4 - 1/2 (0.265 mi.)	G24	42
<b>KING'S GAS MARKET &amp;</b> Reg Id: I-04935	<b>110 LONGDEN AVE #A</b>	<b>NE 1/4 - 1/2 (0.286 mi.)</b>	<b>26</b>	<b>45</b>
CITY OF SOLVANG MUNI Reg Id: I-01038 Reg Id: 3139	160 LONGDEN	ENE 1/4 - 1/2 (0.336 mi.)	J31	53
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>G &amp; G LORENA FUEL</b>	<b>4332 LIVE OAK AVE E</b>	<b>SSW 0 - 1/8 (0.083 mi.)</b>	<b>B4</b>	<b>9</b>





## EXECUTIVE SUMMARY

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there is 1 EDR Hist Cleaner site within approximately 0.125 miles of the target property.

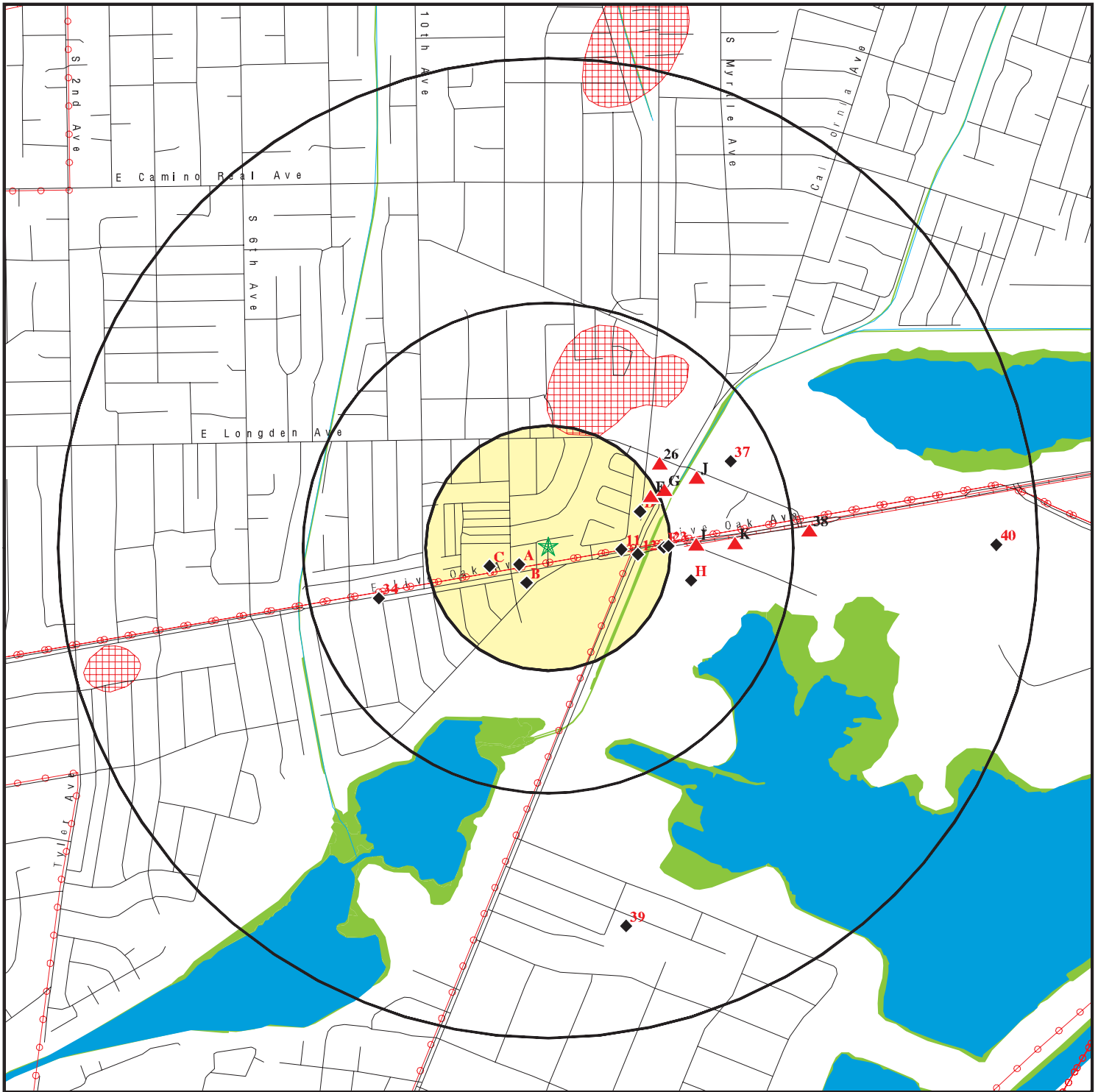
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GEORGE'S LAUNDRETTE Database: EDR Hist Cleaner, Date of Government Version: 02/20/2007	4269 E LIVE OAK	WSW 0 - 1/8 (0.125 mi.)	C10	15

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 4 records.

<u>Site Name</u>	<u>Database(s)</u>
VALLEY PARK CORP DUMP	SWF/LF
WEST VALLEY BASE - SECURITY PAVING	SWF/LF
LONGDEN AVE, CLOSED LANDFILL	ODI
EL MONTE PIT	ODI

# OVERVIEW MAP - 4822613.2S



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites

- Indian Reservations BIA
- ▲ Power transmission lines
- ▲ Pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

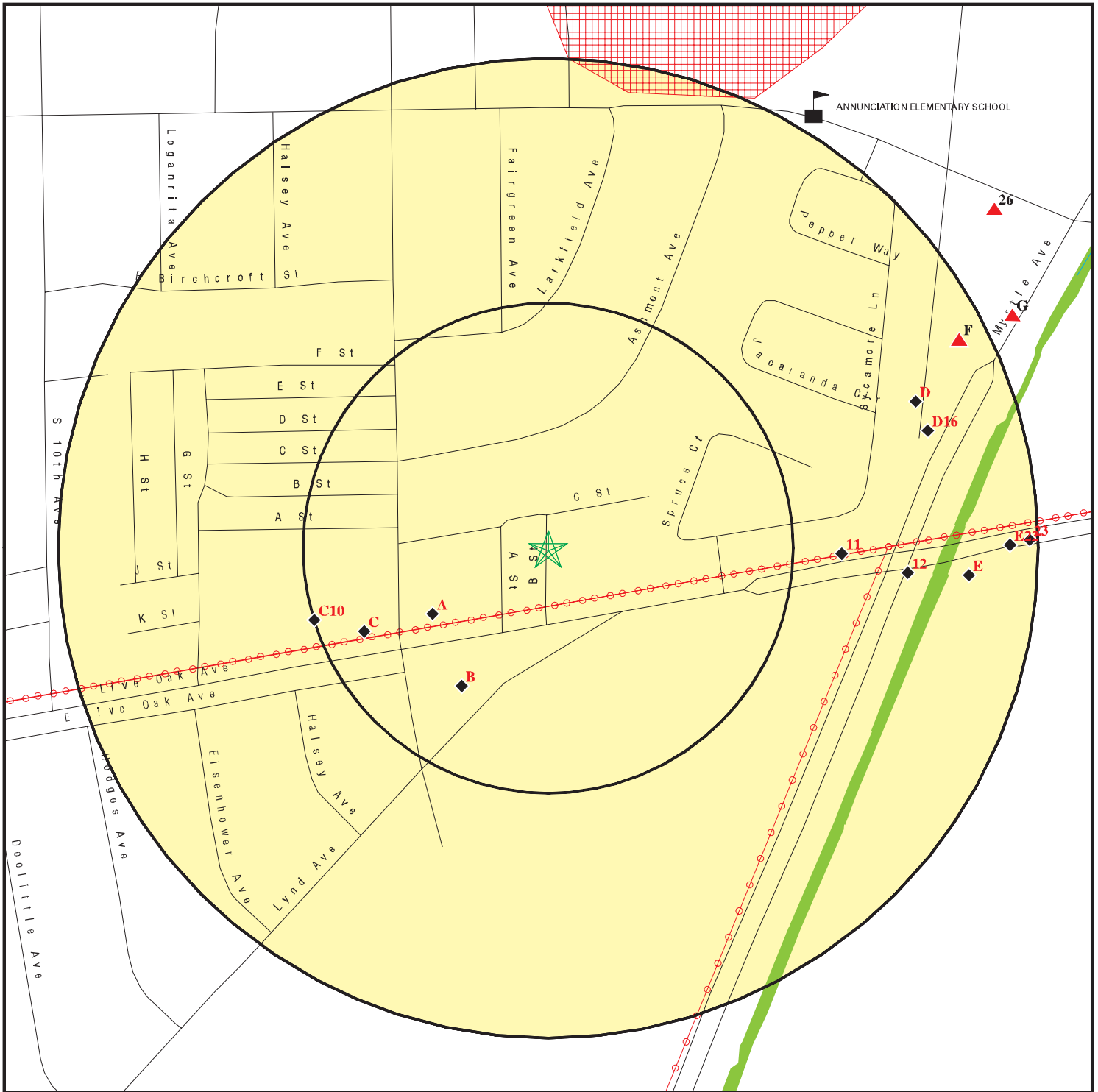
■ Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Residential and Vacant  
 ADDRESS: 4343 and 4371 E. Live Oak Avenue  
 Arcadia CA 91006  
 LAT/LONG: 34.111187 / 118.007772

CLIENT: The Reynolds Group  
 CONTACT: Rosanne Fischer  
 INQUIRY #: 4822613.2s  
 DATE: January 09, 2017 3:02 pm

# DETAIL MAP - 4822613.2S



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ⚙ Manufactured Gas Plants
- ⚡ Sensitive Receptors
- 🚧 National Priority List Sites
- 🏠 Dept. Defense Sites

- 🏠 Indian Reservations BIA
- 🔌 Power transmission lines
- 🔌 Pipelines
- 🌊 100-year flood zone
- 🌊 500-year flood zone
- 🌿 National Wetland Inventory
- 🌿 State Wetlands
- 🏠 Areas of Concern

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: Residential and Vacant  
 ADDRESS: 4343 and 4371 E. Live Oak Avenue  
 Arcadia CA 91006  
 LAT/LONG: 34.111187 / 118.007772

CLIENT: The Reynolds Group  
 CONTACT: Rosanne Fischer  
 INQUIRY #: 4822613.2s  
 DATE: January 09, 2017 3:48 pm



## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
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
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<b><i>Federal CERCLIS NFRAP site list</i></b>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	0	0	NR	0
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250		0	1	NR	NR	NR	1
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<b><i>Federal institutional controls / engineering controls registries</i></b>								
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
<b><i>Federal ERNS list</i></b>								
ERNS	0.001		0	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent NPL RESPONSE</i></b>								
RESPONSE	1.000		0	0	0	0	NR	0
<b><i>State- and tribal - equivalent CERCLIS ENVIROSTOR</i></b>								
ENVIROSTOR	1.000		0	0	0	2	NR	2
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
SWF/LF	0.500		0	3	4	NR	NR	7
<b><i>State and tribal leaking storage tank lists</i></b>								
LUST	0.500		1	3	5	NR	NR	9

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
SLIC	0.500		0	1	1	NR	NR	2
<b><i>State and tribal registered storage tank lists</i></b>								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		1	1	NR	NR	NR	2
AST	0.250		0	2	NR	NR	NR	2
INDIAN UST	0.250		0	0	NR	NR	NR	0
<b><i>State and tribal voluntary cleanup sites</i></b>								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
<b><i>State and tribal Brownfields sites</i></b>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b><u>ADDITIONAL ENVIRONMENTAL RECORDS</u></b>								
<b><i>Local Brownfield lists</i></b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b><i>Local Lists of Landfill / Solid Waste Disposal Sites</i></b>								
WMUDS/SWAT	0.500		0	2	3	NR	NR	5
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
<b><i>Local Lists of Hazardous waste / Contaminated Sites</i></b>								
AOCONCERN	1.000		0	1	0	0	NR	1
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
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
<b><i>Local Lists of Registered Storage Tanks</i></b>								
SWEEPS UST	0.250		0	3	NR	NR	NR	3
HIST UST	0.250		1	2	NR	NR	NR	3
CA FID UST	0.250		0	0	NR	NR	NR	0
<b><i>Local Land Records</i></b>								
LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>Records of Emergency Release Reports</b>								
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
<b>Other Ascertainable Records</b>								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	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
FINDS	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	0.001		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		0	NR	NR	NR	NR	0



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**Areas of Concern**  
**North**  
**1/8-1/4**  
**1246 ft.**

**SAN GABRIEL VALLEY**  
**LOS ANGELES (County), CA**

**AOCONCERN**

**CCA0000001**  
**N/A**

AOCONCERN:

area where VOC contamination is at or above the MCL as designated by region 9 EPA office

**A1**  
**WSW**  
**< 1/8**  
**0.068 mi.**  
**358 ft.**

**R & P UNION SERVICE**  
**4323 LIVE OAK AVE**  
**MONROVIA, CA 91016**  
**Site 1 of 3 in cluster A**

**EDR Hist Auto**

**1008993465**  
**N/A**

**Relative:**  
**Lower**

EDR Historical Auto Stations:

Name: R & P UNION SERVICE  
 Year: 1970

**Actual:**  
**351 ft.**

Type: Not reported

**A2**  
**WSW**  
**< 1/8**  
**0.068 mi.**  
**358 ft.**

**JOHN'S UNION SERVICE**  
**4323 LIVE OAK**  
**ARCADIA, CA 91006**  
**Site 2 of 3 in cluster A**

**EDR Hist Auto**

**1008993700**  
**N/A**

**Relative:**  
**Lower**

EDR Historical Auto Stations:

Name: DUANE'S UNION SERVICE  
 Year: 1966  
 Type: Not reported

**Actual:**  
**351 ft.**

Name: R & P UNION SERVICE  
 Year: 1971  
 Type: Not reported

Name: R & P UNION SERVICE STATION  
 Year: 1972  
 Type: Not reported

Name: JOHN'S UNION SERVICE  
 Year: 1973  
 Type: Not reported

**A3**  
**WSW**  
**< 1/8**  
**0.068 mi.**  
**358 ft.**

**KRANTZ UNION SERVICE**  
**4323 E LIVE OAK**  
**ARCADIA, CA 91006**  
**Site 3 of 3 in cluster A**

**EDR Hist Auto**

**1009120322**  
**N/A**

**Relative:**  
**Lower**

EDR Historical Auto Stations:

Name: KRANTZ UNION SERVICE  
 Year: 1965

**Actual:**  
**351 ft.**

Type: Not reported



MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**B4**            **G & G LORENA FUEL**  
**SSW**        **4332 LIVE OAK AVE E**  
**< 1/8**        **ARCADIA, CA 91006**  
**0.083 mi.**  
**438 ft.**        **Site 1 of 4 in cluster B**

**LUST**    **S103438025**  
**HIST CORTESE**    **N/A**

**Relative:**  
**Lower**

LUST:

**Actual:**  
**350 ft.**

Region: STATE  
 Global Id: T0603705312  
 Latitude: 34.110192  
 Longitude: -118.00846  
 Case Type: LUST Cleanup Site  
 Status: Completed - Case Closed  
 Status Date: 05/20/1999  
 Lead Agency: LOS ANGELES COUNTY  
 Case Worker: JOA  
 Local Agency: LOS ANGELES COUNTY  
 RB Case Number: R-20695  
 LOC Case Number: Not reported  
 File Location: Not reported  
 Potential Media Affect: Soil  
 Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon  
 Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id: T0603705312  
 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: T0603705312  
 Contact Type: Regional Board Caseworker  
 Contact Name: YUE RONG  
 Organization Name: LOS ANGELES RWQCB (REGION 4)  
 Address: 320 W. 4TH ST., SUITE 200  
 City: Los Angeles  
 Email: yrong@waterboards.ca.gov  
 Phone Number: Not reported

Status History:

Global Id: T0603705312  
 Status: Completed - Case Closed  
 Status Date: 05/20/1999

Global Id: T0603705312  
 Status: Open - Case Begin Date  
 Status Date: 03/20/1998

Regulatory Activities:

Global Id: T0603705312  
 Action Type: Other  
 Date: 05/04/1998  
 Action: Leak Discovery

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**G & G LORENA FUEL (Continued)**

**S103438025**

Global Id: T0603705312  
Action Type: Other  
Date: 03/20/1998  
Action: Leak Stopped

Global Id: T0603705312  
Action Type: Other  
Date: 07/29/1998  
Action: Leak Reported

Region: STATE  
Global Id: T0603786230  
Latitude: 34.110096  
Longitude: -118.00846  
Case Type: LUST Cleanup Site  
Status: Completed - Case Closed  
Status Date: 07/29/2005  
Lead Agency: LOS ANGELES COUNTY  
Case Worker: TS  
Local Agency: LOS ANGELES COUNTY  
RB Case Number: Not reported  
LOC Case Number: CLUP# 420012  
File Location: Not reported  
Potential Media Affect: Soil  
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating  
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

**Contact:**

Global Id: T0603786230  
Contact Type: Local Agency Caseworker  
Contact Name: TIM SMITH  
Organization Name: LOS ANGELES COUNTY  
Address: 900 S. FREMONT AVE.  
City: ALHAMBRA  
Email: tsmith@dpw.lacounty.gov  
Phone Number: Not reported

Global Id: T0603786230  
Contact Type: Regional Board Caseworker  
Contact Name: YUE RONG  
Organization Name: LOS ANGELES RWQCB (REGION 4)  
Address: 320 W. 4TH ST., SUITE 200  
City: Los Angeles  
Email: yrong@waterboards.ca.gov  
Phone Number: Not reported

**Status History:**

Global Id: T0603786230  
Status: Completed - Case Closed  
Status Date: 07/29/2005

Global Id: T0603786230  
Status: Open - Case Begin Date  
Status Date: 07/29/2004

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**G & G LORENA FUEL (Continued)**

**S103438025**

Global Id: T0603786230  
Status: Open - Site Assessment  
Status Date: 07/29/2004

Regulatory Activities:

Global Id: T0603786230  
Action Type: Other  
Date: 12/23/2004  
Action: Leak Discovery

Global Id: T0603786230  
Action Type: Other  
Date: 01/11/2005  
Action: Leak Reported

LUST REG 4:

Region: 4  
Regional Board: 04  
County: Los Angeles  
Facility Id: R-20695  
Status: Case Closed  
Substance: Hydrocarbons  
Substance Quantity: Not reported  
Local Case No: Not reported  
Case Type: Soil  
Abatement Method Used at the Site: OT  
Global ID: T0603705312  
W Global ID: Not reported  
Staff: UNK  
Local Agency: 19000  
Cross Street: MAY FLOWER AVE  
Enforcement Type: Not reported  
Date Leak Discovered: 5/4/1998  
Date Leak First Reported: 7/29/1998  
Date Leak Record Entered: 9/1/1998  
Date Confirmation Began: Not reported  
Date Leak Stopped: 3/20/1998  
Date Case Last Changed on Database: 5/20/1999  
Date the Case was Closed: 5/20/1999  
How Leak Discovered: Tank Closure  
How Leak Stopped: Not reported  
Cause of Leak: UNK  
Leak Source: UNK  
Operator: GREG TERMED JIAN  
Water System: Not reported  
Well Name: Not reported  
Approx. Dist To Production Well (ft): 1746.8578153217636830501975813  
Source of Cleanup Funding: UNK  
Preliminary Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: Not reported  
Pollution Characterization Began: Not reported  
Remediation Plan Submitted: Not reported  
Remedial Action Underway: Not reported  
Post Remedial Action Monitoring Began: Not reported  
Enforcement Action Date: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**G & G LORENA FUEL (Continued)**

**S103438025**

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:	LENOVA FUELS
RP Address:	11565 MORRISON ST., NORTH HOLLYWOOD CA 91601
Program:	LUST
Lat/Long:	34.1103399 / -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:	TPH=63000 PPM, MTBE=16 PPM, BTEX=ND/1.1/5.1/20 PPM

**HIST CORTESE:**

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	R-20695

**B5**  
**SSW**  
 < 1/8  
 0.083 mi.  
 438 ft.

**4332 E LIVE OAK AVE**  
**ARCADIA, CA 91006**  
**Site 2 of 4 in cluster B**

**EDR Hist Auto 1008995324**  
**N/A**

**Relative:**  
**Lower**  
  
**Actual:**  
**350 ft.**

**EDR Historical Auto Stations:**

Name:	ALEX'S WILSHIRE SERVICE
Year:	1965
Type:	Not reported
Name:	TEXACO
Year:	1999
Address:	4332 E LIVE OAK AVE
Name:	ARCADIA FOREIGN AUTOMOTIVE
Year:	2009
Address:	4332 E LIVE OAK AVE

**B6**  
**SSW**  
 < 1/8  
 0.083 mi.  
 438 ft.

**OFFICIAL CAR WASH**  
**4332 E LIVE OAK**  
**ARCADIA, CA 91006**  
**Site 3 of 4 in cluster B**

**HIST UST U001566447**  
**N/A**

**Relative:**  
**Lower**  
  
**Actual:**  
**350 ft.**

**HIST UST:**

File Number:	00028932
URL:	<a href="http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00028932.pdf">http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00028932.pdf</a>
Region:	STATE
Facility ID:	0000000505

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OFFICIAL CAR WASH (Continued)**

**U001566447**

Facility Type: Gas Station  
Other Type: Not reported  
Contact Name: TOM WOLLAM  
Telephone: 8184452097  
Owner Name: Y. E. S. INDUSTRIES INC.  
Owner Address: 605 W. ALOSTRA  
Owner City,St,Zip: GLENDORA, CA 91740  
Total Tanks: 0005

Tank Num: 001  
Container Num: #5  
Year Installed: Not reported  
Tank Capacity: 00000000  
Tank Used for: WASTE  
Type of Fuel: WASTE OIL  
Container Construction Thickness: Not reported  
Leak Detection: Stock Inventor

Tank Num: 002  
Container Num: #4  
Year Installed: Not reported  
Tank Capacity: 00012000  
Tank Used for: PRODUCT  
Type of Fuel: REGULAR  
Container Construction Thickness: Not reported  
Leak Detection: Stock Inventor

Tank Num: 003  
Container Num: #3  
Year Installed: Not reported  
Tank Capacity: 00012000  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Container Construction Thickness: Not reported  
Leak Detection: Stock Inventor

Tank Num: 004  
Container Num: DIESEL #2  
Year Installed: Not reported  
Tank Capacity: 00012000  
Tank Used for: PRODUCT  
Type of Fuel: DIESEL  
Container Construction Thickness: Not reported  
Leak Detection: Stock Inventor

Tank Num: 005  
Container Num: SUPER #1  
Year Installed: Not reported  
Tank Capacity: 00012000  
Tank Used for: PRODUCT  
Type of Fuel: PREMIUM  
Container Construction Thickness: Not reported  
Leak Detection: Stock Inventor

[Click here for Geo Tracker PDF:](#)



MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

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<b>B7</b>	<b>G&amp;G LORENA FUEL</b>	<b>UST</b>	<b>U003939880</b>
<b>SSW</b>	<b>4332 E LIVE OAK AVE</b>		<b>N/A</b>
<b>&lt; 1/8</b>	<b>ARCADIA, CA 91006</b>		
<b>0.083 mi.</b>			
<b>438 ft.</b>	<b>Site 4 of 4 in cluster B</b>		

<b>Relative:</b>	UST:		
<b>Lower</b>	Facility ID:	20695	
	Permitting Agency:	LOS ANGELES COUNTY	
<b>Actual:</b>	Latitude:	34.1115249	
<b>350 ft.</b>	Longitude:	-118.0070903	

---

<b>C8</b>	<b>LITTLE JOE'S TEXACO SERVICE</b>	<b>EDR Hist Auto</b>	<b>1009120323</b>
<b>WSW</b>	<b>4305 LIVE OAK</b>		<b>N/A</b>
<b>&lt; 1/8</b>	<b>ARCADIA, CA 91006</b>		
<b>0.103 mi.</b>			
<b>544 ft.</b>	<b>Site 1 of 3 in cluster C</b>		

<b>Relative:</b>	EDR Historical Auto Stations:		
<b>Lower</b>	Name:	LITTLE JOE'S TEXACO SERVICE	
	Year:	1966	
<b>Actual:</b>	Type:	Not reported	
<b>351 ft.</b>			

---

<b>C9</b>	<b>JOHN'S TEXACO SERVICE</b>	<b>EDR Hist Auto</b>	<b>1008995130</b>
<b>WSW</b>	<b>4305 E LIVE OAK</b>		<b>N/A</b>
<b>&lt; 1/8</b>	<b>ARCADIA, CA 91006</b>		
<b>0.103 mi.</b>			
<b>544 ft.</b>	<b>Site 2 of 3 in cluster C</b>		

<b>Relative:</b>	EDR Historical Auto Stations:		
<b>Lower</b>	Name:	JOHN'S TEXACO SERVICE	
	Year:	1965	
<b>Actual:</b>	Type:	Not reported	
<b>351 ft.</b>			
	Name:	SMOG CHECK STATIONS ARCADIA	
	Year:	1999	
	Address:	4305 E LIVE OAK AVE	
	Name:	SMOG CHECK STATIONS ARCADIA	
	Year:	2003	
	Address:	4305 E LIVE OAK AVE	
	Name:	ARCADIA SMOG & REPAIRS	
	Year:	2004	
	Address:	4305 E LIVE OAK AVE	
	Name:	ARCADIA SMOG & REPAIRS	
	Year:	2005	
	Address:	4305 E LIVE OAK AVE	
	Name:	ARCADIA SMOG & REPAIRS	
	Year:	2010	
	Address:	4305 E LIVE OAK AVE	
	Name:	ARCADIA SMOG & REPAIRS	
	Year:	2011	
	Address:	4305 E LIVE OAK AVE	

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**JOHN'S TEXACO SERVICE (Continued)**

1008995130

Name: ARCADIA SMOG & REPAIRS  
 Year: 2012  
 Address: 4305 E LIVE OAK AVE

**C10**  
**WSW**  
 < 1/8  
 0.125 mi.  
 659 ft.

**GEORGE'S LAUNDRETTE**  
**4269 E LIVE OAK**  
**ARCADIA, CA 91006**  
**Site 3 of 3 in cluster C**

**EDR Hist Cleaner**    **1009125502**  
 N/A

**Relative:**  
**Lower**

EDR Historical Cleaners:  
 Name: GEORGE'S LAUNDRETTE  
 Year: 1965  
 Type: Not reported

**Actual:**  
**351 ft.**

**11**  
**East**  
 1/8-1/4  
 0.150 mi.  
 791 ft.

**S L S AND N INC**  
**128 E LIVE OAK AVE**  
**MONROVIA, CA 91016**

**WMUDS/SWAT**    **S103438804**  
**WDS**    **N/A**

**Relative:**  
**Lower**

WMUDS/SWAT: Not reported  
 Edit Date:  
 Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

**Actual:**  
**350 ft.**

Primary Waste: SLDWST  
 Primary Waste Type: Inert/Influent or Solid Wastes that do not contain soluble pollutants or organic wastes and have little adverse impact on water quality. Such wastes could cause turbidity and siltation. Uncontaminated soils, rubble and concrete are examples of this category.

Secondary Waste: Not reported  
 Secondary Waste Type: Not reported  
 Base Meridian: Not reported  
 NPID: Not reported  
 Tonnage: 0  
 Regional Board ID: 82-17  
 Municipal Solid Waste: False  
 Superorder: False  
 Open To Public: False  
 Waste List: True  
 Agency Type: Private  
 Agency Name: S. L. S. & N. INC.  
 Agency Department: WEST VALLEY BASE MATERIALS  
 Agency Address: P.O. BOX 1286  
 Agency City, St, Zip: MONROVIA CA 91017  
 Agency Contact: NICK BUBALO  
 Agency Telephone: 6265741855  
 Land Owner Name: SECURITY PAVING  
 Land Owner Address: P.O. BOX 1489  
 Land Owner City, St, Zip: SUN VALLEY, CA 91352  
 Land Owner Contact: Not reported  
 Land Owner Phone: 2137678418

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**S L S AND N INC (Continued)**

**S103438804**

Region: 4  
Facility Type: Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)  
Facility Description: Not reported  
Facility Telephone: 5625741855  
SWAT Facility Name: WEST VALLEY BASE MATERIALS DISPOSAL SI  
Primary SIC: 4953  
Secondary SIC: Not reported  
Comments: Not reported  
Last Facility Editors: Not reported  
Waste Discharge System: True  
Solid Waste Assessment Test Program: True  
Toxic Pits Cleanup Act Program: False  
Resource Conservation Recovery Act: False  
Department of Defence: False  
Solid Waste Assessment Test Program: SECURITY PAVING  
Threat to Water Quality: Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Awsthetic impairment would include nuisance from a waste treatment facility.  
Sub Chapter 15: True  
Regional Board Project Officer: Not reported  
Number of WMUDS at Facility: 1  
Section Range: Not reported  
RCRA Facility: No  
Waste Discharge Requirements: A  
Self-Monitoring Rept. Frequency: Quarterly Submittal  
Waste Discharge System ID: 4B190333001  
Solid Waste Information ID: 19-AA-0409

**WDS:**

Facility ID: 4 19I016242  
Facility Type: Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)  
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.  
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board  
Subregion: 4  
Facility Telephone: 6265741855  
Facility Contact: John Schiller  
Agency Name: S L S AND N INC  
Agency Address: Not reported  
Agency City,St,Zip: 0  
Agency Contact: Not reported  
Agency Telephone: Not reported  
Agency Type: Private  
SIC Code: 1442  
SIC Code 2: Not reported  
Primary Waste Type: Inert/Influent or Solid Wastes that do not contain soluble pollutants or organic wastes and have little adverse impact on water quality. Such wastes could cause turbidity and siltation. Uncontaminated soils, rubble and concrete are examples of this category.  
Primary Waste: STORMS  
Waste Type2: Not reported  
Waste2: Stormwater Runoff

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**S L S AND N INC (Continued)**

**S103438804**

Primary Waste Type: Inert/Influent or Solid Wastes that do not contain soluble pollutants or organic wastes and have little adverse impact on water quality. Such wastes could cause turbidity and siltation. Uncontaminated soils, rubble and concrete are examples of this category.

Secondary Waste: Not reported  
 Secondary Waste Type: Not reported  
 Design Flow: 0  
 Baseline Flow: 0  
 Reclamation: No reclamation requirements associated with this facility.  
 POTW: The POTW Does not have an approved pretreatment program. Some POTWs may have local pretreatment programs that have not been approved by the regional board and/or EPA.

Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

12  
 East  
 1/8-1/4  
 0.184 mi.  
 971 ft.

**PASEDNA CITY LANDFILL-IRWINDA  
 LIVE OAK NEAR PECK  
 IRWINDALE, CA**

**WMUDS/SWAT S103441555  
 N/A**

**Relative:  
 Lower**

WMUDS/SWAT:  
 Edit Date: Not reported  
 Complexity: Not reported  
 Primary Waste: Not reported  
 Primary Waste Type: Not reported  
 Secondary Waste: Not reported  
 Secondary Waste Type: Not reported  
 Base Meridian: Not reported  
 NPID: Not reported  
 Tonnage: 0  
 Regional Board ID: Not reported  
 Municipal Solid Waste: False  
 Superorder: False  
 Open To Public: False  
 Waste List: False  
 Agency Type: Not reported  
 Agency Name: CITY OF PASADENA  
 Agency Department: Not reported  
 Agency Address: Not reported  
 Agency City,St,Zip: Not reported  
 Agency Contact: Not reported  
 Agency Telephone: Not reported  
 Land Owner Name: Not reported  
 Land Owner Address: Not reported  
 Land Owner City,St,Zip: CA  
 Land Owner Contact: Not reported  
 Land Owner Phone: Not reported

**Actual:  
 344 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

PASEDNA CITY LANDFILL-IRWINDA (Continued)

S103441555

Region: 4  
Facility Type: Not reported  
Facility Description: Not reported  
Facility Telephone: Not reported  
SWAT Facility Name: Not reported  
Primary SIC: Not reported  
Secondary SIC: Not reported  
Comments: Not reported  
Last Facility Editors: Not reported  
Waste Discharge System: False  
Solid Waste Assessment Test Program: True  
Toxic Pits Cleanup Act Program: False  
Resource Conservation Recovery Act: False  
Department of Defence: False  
Solid Waste Assessment Test Program: CITY OF PASADENA  
Threat to Water Quality: Not reported  
Sub Chapter 15: False  
Regional Board Project Officer: LT  
Number of WMUDS at Facility: 1  
Section Range: Not reported  
RCRA Facility: Not reported  
Waste Discharge Requirements: Not reported  
Self-Monitoring Rept. Frequency: Not reported  
Waste Discharge System ID: 4 190323NUR  
Solid Waste Information ID: Not reported

D13 F&M AUTO WRECKING INC  
ENE 3333 A S PECK RD  
1/8-1/4 MONROVIA, CA 91016  
0.202 mi.  
1066 ft. Site 1 of 4 in cluster D

AST S111214860  
NPDES N/A

Relative:  
Lower

AST:

Actual:  
351 ft.

Certified Unified Program Agencies: Not reported  
Owner: LKQ CORP. / PICK-A-PART  
Total Gallons: Not reported  
CERSID: 10153879  
Facility ID: LACoFA0020444  
Business Name: PICK A PART  
Phone: (626) 445-2925  
Fax: (626)445-2307  
Mailing Address: 3333 S PECK RD  
Mailing Address City: MONROVIA  
Mailing Address State: CA  
Mailing Address Zip Code: 91016  
Operator Name: PICK-A-PART AUTO DISMANTLING INC.  
Operator Phone: (714)231-4601  
Owner Phone: (626)445-2925  
Owner Mail Address: 3333 S PECK RD  
Owner State: CA  
Owner Zip Code: 91016  
Owner Country: United States  
Property Owner Name: Not reported  
Property Owner Phone: Not reported  
Property Owner Mailing Address: Not reported  
Property Owner City: Not reported  
Property Owner Stat : Not reported  
Property Owner Zip Code: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**F&M AUTO WRECKING INC (Continued)**

**S111214860**

Property Owner Country: Not reported  
EPAID: CAL000388487

**NPDES:**

Npdes Number: CAS000001  
Facility Status: Terminated  
Agency Id: 0  
Region: 4  
Regulatory Measure Id: 360233  
Order No: 97-03-DWQ  
Regulatory Measure Type: Enrollee  
Place Id: Not reported  
WDID: 4 19I022006  
Program Type: Industrial  
Adoption Date Of Regulatory Measure: Not reported  
Effective Date Of Regulatory Measure: 01/28/2009  
Expiration Date Of Regulatory Measure: Not reported  
Termination Date Of Regulatory Measure: 05/01/2014  
Discharge Name: F&M Auto Wrecking Inc  
Discharge Address: 3333 A S Peck Rd  
Discharge City: Monrovia  
Discharge State: California  
Discharge Zip: 91016  
RECEIVED DATE: Not reported  
PROCESSED DATE: Not reported  
STATUS CODE NAME: Not reported  
STATUS DATE: Not reported  
PLACE SIZE: Not reported  
PLACE SIZE UNIT: Not reported  
FACILITY CONTACT NAME: Not reported  
FACILITY CONTACT TITLE: Not reported  
FACILITY CONTACT PHONE: Not reported  
FACILITY CONTACT PHONE EXT: Not reported  
FACILITY CONTACT EMAIL: Not reported  
OPERATOR NAME: Not reported  
OPERATOR ADDRESS: Not reported  
OPERATOR CITY: Not reported  
OPERATOR STATE: Not reported  
OPERATOR ZIP: Not reported  
OPERATOR CONTACT NAME: Not reported  
OPERATOR CONTACT TITLE: Not reported  
OPERATOR CONTACT PHONE: Not reported  
OPERATOR CONTACT PHONE EXT: Not reported  
OPERATOR CONTACT EMAIL: Not reported  
OPERATOR TYPE: Not reported  
DEVELOPER NAME: Not reported  
DEVELOPER ADDRESS: Not reported  
DEVELOPER CITY: Not reported  
DEVELOPER STATE: Not reported  
DEVELOPER ZIP: Not reported  
DEVELOPER CONTACT NAME: Not reported  
DEVELOPER CONTACT TITLE: Not reported  
CONSTYPE LINEAR UTILITY IND: Not reported  
EMERGENCY PHONE NO: Not reported  
EMERGENCY PHONE EXT: Not reported  
CONSTYPE ABOVE GROUND IND: Not reported  
CONSTYPE BELOW GROUND IND: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**F&M AUTO WRECKING INC (Continued)**

**S111214860**

CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERCIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESCRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	4
Regulatory Measure Id:	360233
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	4 19I022006
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	1/27/2009
PROCESSED DATE:	1/28/2009
STATUS CODE NAME:	Active
STATUS DATE:	1/28/2009
PLACE SIZE:	14400
PLACE SIZE UNIT:	53
FACILITY CONTACT NAME:	Eugene Lee
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	626-446-6100
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	F&M Auto Wrecking Inc
OPERATOR ADDRESS:	3333 A S Peck Rd
OPERATOR CITY:	Monrovia
OPERATOR STATE:	California

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**F&M AUTO WRECKING INC (Continued)**

**S111214860**

OPERATOR ZIP: 91016  
OPERATOR CONTACT NAME: Eugene Lee  
OPERATOR CONTACT TITLE: Not reported  
OPERATOR CONTACT PHONE: 626-446-6100  
OPERATOR CONTACT PHONE EXT: Not reported  
OPERATOR CONTACT EMAIL: Not reported  
OPERATOR TYPE: Private Business  
DEVELOPER NAME: Not reported  
DEVELOPER ADDRESS: Not reported  
DEVELOPER CITY: Not reported  
DEVELOPER STATE: California  
DEVELOPER ZIP: Not reported  
DEVELOPER CONTACT NAME: Not reported  
DEVELOPER CONTACT TITLE: Not reported  
CONSTYPE LINEAR UTILITY IND: Not reported  
EMERGENCY PHONE NO: Not reported  
EMERGENCY PHONE EXT: Not reported  
CONSTYPE ABOVE GROUND IND: Not reported  
CONSTYPE BELOW GROUND IND: Not reported  
CONSTYPE CABLE LINE IND: Not reported  
CONSTYPE COMM LINE IND: Not reported  
CONSTYPE COMMERTIAL IND: Not reported  
CONSTYPE ELECTRICAL LINE IND: Not reported  
CONSTYPE GAS LINE IND: Not reported  
CONSTYPE INDUSTRIAL IND: Not reported  
CONSTYPE OTHER DESCRIPTION: Not reported  
CONSTYPE OTHER IND: Not reported  
CONSTYPE RECONS IND: Not reported  
CONSTYPE RESIDENTIAL IND: Not reported  
CONSTYPE TRANSPORT IND: Not reported  
CONSTYPE UTILITY DESCRIPTION: Not reported  
CONSTYPE UTILITY IND: Not reported  
CONSTYPE WATER SEWER IND: Not reported  
DIR DISCHARGE USWATER IND: N  
RECEIVING WATER NAME: San Gabriel River  
CERTIFIER NAME: Not reported  
CERTIFIER TITLE: Not reported  
CERTIFICATION DATE: Not reported  
PRIMARY SIC: 5015-Motor Vehicle Parts, Used  
SECONDARY SIC: Not reported  
TERTIARY SIC: Not reported

D14  
ENE  
1/8-1/4  
0.202 mi.  
1066 ft.

**PICK-A-PART AUTO DISMANTLING INC**  
**3333 S PECK RD**  
**MONROVIA, CA 91016**

**RCRA-LQG 1017785604**  
**CAL000014470**

**Site 2 of 4 in cluster D**

**Relative:**  
**Lower**

RCRA-LQG:

Date form received by agency: 01/14/2015  
Facility name: PICK-A-PART AUTO DISMANTLING INC  
Facility address: 3333 S PECK RD  
MONROVIA, CA 91016  
EPA ID: CAL000014470  
Mailing address: S PECK RD  
MONROVIA, CA 91016  
Contact: ADRIAN FERNANDEZ  
Contact address: S PECK RD

**Actual:**  
**351 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PICK-A-PART AUTO DISMANTLING INC (Continued)**

**1017785604**

MONROVIA, CA 91016  
Contact country: Not reported  
Contact telephone: (626) 445-2925  
Telephone ext.: 210  
Contact email: AXFERNANDEZ@LKQCORP.COM  
EPA Region: 09  
Classification: Large Quantity Generator  
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

**Owner/Operator Summary:**

Owner/operator name: PICK-A-PART AUTO DISMANTLING INC  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 09/14/1976  
Owner/Op end date: Not reported

Owner/operator name: AMERICAN RECYCLING INTERNATIONAL INC  
Owner/operator address: S PECK RD  
MONROVIA, CA 91016  
Owner/operator country: Not reported  
Owner/operator telephone: (626) 445-2925  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 09/14/1976  
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

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PICK-A-PART AUTO DISMANTLING INC (Continued)**

**1017785604**

Used oil transporter: No

Universal Waste Summary:

Waste type: Batteries  
Accumulated waste on-site: Yes  
Generated waste on-site: No

. Waste code: D001  
. Waste name: IGNITABLE WASTE

. Waste code: D002  
. Waste name: CORROSIVE WASTE

. Waste code: D007  
. Waste name: CHROMIUM

Violation Status: No violations found

**D15 AMERICAN RECYCLING INTERNATIONAL DBA PICK A PART AUTO DISMAN**  
**ENE 3333 PECK RD**  
**1/8-1/4 MONROVIA, CA 91016**  
**0.202 mi.**  
**1066 ft. Site 3 of 4 in cluster D**

**LUST S104565248**  
**HAZNET N/A**  
**NPDES**

**Relative:**  
**Lower**

LUST:

**Actual:**  
**351 ft.**

Region: STATE  
Global Id: T0603704166  
Latitude: 34.1101789721541  
Longitude: -118.00677895546  
Case Type: LUST Cleanup Site  
Status: Open - Site Assessment  
Status Date: 09/09/2015  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Case Worker: JFL  
Local Agency: LOS ANGELES COUNTY  
RB Case Number: I-14428  
LOC Case Number: 013956-014428  
File Location: Regional Board  
Potential Media Affect: Soil  
Potential Contaminants of Concern: Gasoline  
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id: T0603704166  
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: T0603704166  
Contact Type: Regional Board Caseworker  
Contact Name: JOE F. LUERA  
Organization Name: LOS ANGELES RWQCB (REGION 4)  
Address: 320 W. 4TH STREET, SUITE 200



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMERICAN RECYCLING INTERNATIONAL DBA PICK A PART AUTO DISMAN (Continued)**

**S104565248**

City: LOS ANGELES  
Email: jluera@waterboards.ca.gov  
Phone Number: Not reported

Status History:

Global Id: T0603704166  
Status: Open - Case Begin Date  
Status Date: 04/06/1990

Global Id: T0603704166  
Status: Open - Eligible for Closure  
Status Date: 01/25/2013

Global Id: T0603704166  
Status: Open - Site Assessment  
Status Date: 04/06/1990

Global Id: T0603704166  
Status: Open - Site Assessment  
Status Date: 09/09/2015

Regulatory Activities:

Global Id: T0603704166  
Action Type: ENFORCEMENT  
Date: 12/31/2009  
Action: Staff Letter

Global Id: T0603704166  
Action Type: Other  
Date: 04/06/1990  
Action: Leak Discovery

Global Id: T0603704166  
Action Type: ENFORCEMENT  
Date: 12/31/2009  
Action: Staff Letter

Global Id: T0603704166  
Action Type: Other  
Date: 05/06/1990  
Action: Leak Stopped

Global Id: T0603704166  
Action Type: Other  
Date: 05/02/1990  
Action: Leak Reported

Global Id: T0603704166  
Action Type: RESPONSE  
Date: 05/01/2010  
Action: Other Report / Document

Global Id: T0603704166  
Action Type: RESPONSE  
Date: 04/22/2010  
Action: Other Report / Document

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

AMERICAN RECYCLING INTERNATIONAL DBA PICK A PART AUTO DISMAN (Continued)

S104565248

HAZNET:

envid: S104565248  
Year: 2015  
GEPaid: CAL000388487  
Contact: ADRIAN FERNANDEZ  
Telephone: 6264452925  
Mailing Name: Not reported  
Mailing Address: 3333 PECK RD  
Mailing City,St,Zip: MONROVIA, CA 910165001  
Gen County: Los Angeles  
TSD EPA ID: CAD008302903  
TSD County: Los Angeles  
Waste Category: Unspecified solvent mixture  
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site  
Tons: 0.99  
Cat Decode: Unspecified solvent mixture  
Method Decode: Fuel Blending Prior To Energy Recovery At Another Site  
Facility County: Los Angeles

envid: S104565248  
Year: 2015  
GEPaid: CAL000388487  
Contact: ADRIAN FERNANDEZ  
Telephone: 6264452925  
Mailing Name: Not reported  
Mailing Address: 3333 PECK RD  
Mailing City,St,Zip: MONROVIA, CA 910165001  
Gen County: Los Angeles  
TSD EPA ID: ARD981057870  
TSD County: 99  
Waste Category: Unspecified solvent mixture  
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site  
Tons: 0.54  
Cat Decode: Unspecified solvent mixture  
Method Decode: Fuel Blending Prior To Energy Recovery At Another Site  
Facility County: Los Angeles

envid: S104565248  
Year: 2015  
GEPaid: CAL000388487  
Contact: ADRIAN FERNANDEZ  
Telephone: 6264452925  
Mailing Name: Not reported  
Mailing Address: 3333 PECK RD  
Mailing City,St,Zip: MONROVIA, CA 910165001  
Gen County: Los Angeles  
TSD EPA ID: ARD981057870  
TSD County: 99  
Waste Category: Off-specification, aged or surplus organics  
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site  
Tons: 0.105  
Cat Decode: Off-specification, aged or surplus organics  
Method Decode: Fuel Blending Prior To Energy Recovery At Another Site  
Facility County: Los Angeles

envid: S104565248  
Year: 2015

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMERICAN RECYCLING INTERNATIONAL DBA PICK A PART AUTO DISMAN (Continued)**

**S104565248**

GEPaid: CAL000388487  
Contact: ADRIAN FERNANDEZ  
Telephone: 6264452925  
Mailing Name: Not reported  
Mailing Address: 3333 PECK RD  
Mailing City,St,Zip: MONROVIA, CA 910165001  
Gen County: Los Angeles  
TSD EPA ID: AZR000501510  
TSD County: 99  
Waste Category: Unspecified organic liquid mixture  
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.3  
Cat Decode: Unspecified organic liquid mixture  
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Facility County: Los Angeles

envid: S104565248  
Year: 2015  
GEPaid: CAL000388487  
Contact: ADRIAN FERNANDEZ  
Telephone: 6264452925  
Mailing Name: Not reported  
Mailing Address: 3333 PECK RD  
Mailing City,St,Zip: MONROVIA, CA 910165001  
Gen County: Los Angeles  
TSD EPA ID: AZR000515924  
TSD County: 99  
Waste Category: Latex waste  
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.5  
Cat Decode: Latex waste  
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Facility County: Los Angeles

[Click this hyperlink](#) while viewing on your computer to access 18 additional CA\_HAZNET: record(s) in the EDR Site Report.

**NPDES:**

Npdes Number: Not reported  
Facility Status: Not reported  
Agency Id: Not reported  
Region: 4  
Regulatory Measure Id: 190029  
Order No: Not reported  
Regulatory Measure Type: Industrial  
Place Id: Not reported  
WDID: 4 19I010791  
Program Type: Not reported  
Adoption Date Of Regulatory Measure: Not reported  
Effective Date Of Regulatory Measure: Not reported  
Expiration Date Of Regulatory Measure: Not reported  
Termination Date Of Regulatory Measure: Not reported  
Discharge Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

AMERICAN RECYCLING INTERNATIONAL DBA PICK A PART AUTO DISMAN (Continued)

S104565248

Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	5/9/2008
PROCESSED DATE:	12/14/1993
STATUS CODE NAME:	Active
STATUS DATE:	12/14/1993
PLACE SIZE:	7
PLACE SIZE UNIT:	52
FACILITY CONTACT NAME:	Thomas Hutton
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	626-445-2922
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Pick A Part
OPERATOR ADDRESS:	3333 Peck Rd
OPERATOR CITY:	Monrovia
OPERATOR STATE:	California
OPERATOR ZIP:	91016
OPERATOR CONTACT NAME:	Thomas C Hutton
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	626-445-2922
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	626-445-2922
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMERICAN RECYCLING INTERNATIONAL DBA PICK A PART AUTO DISMAN (Continued)**

**S104565248**

PRIMARY SIC: 5015-Motor Vehicle Parts, Used  
SECONDARY SIC: Not reported  
TERTIARY SIC: Not reported

Npdes Number: Not reported  
Facility Status: Not reported  
Agency Id: Not reported  
Region: 4  
Regulatory Measure Id: 187845  
Order No: Not reported  
Regulatory Measure Type: Construction  
Place Id: Not reported  
WDID: 4 19C324654  
Program Type: Not reported  
Adoption Date Of Regulatory Measure: Not reported  
Effective Date Of Regulatory Measure: Not reported  
Expiration Date Of Regulatory Measure: Not reported  
Termination Date Of Regulatory Measure: 5/26/2010  
Discharge Name: Not reported  
Discharge Address: Not reported  
Discharge City: Not reported  
Discharge State: Not reported  
Discharge Zip: Not reported  
RECEIVED DATE: 5/9/2008  
PROCESSED DATE: 11/12/2003  
STATUS CODE NAME: Terminated  
STATUS DATE: 6/25/2010  
PLACE SIZE: 1  
PLACE SIZE UNIT: 52  
FACILITY CONTACT NAME: LYNN Anderson  
FACILITY CONTACT TITLE: Not reported  
FACILITY CONTACT PHONE: 6264452922  
FACILITY CONTACT PHONE EXT: Not reported  
FACILITY CONTACT EMAIL: Not reported  
OPERATOR NAME: Parts Country Inc  
OPERATOR ADDRESS: 3333 Peck Rd  
OPERATOR CITY: Monrovia  
OPERATOR STATE: California  
OPERATOR ZIP: 91016  
OPERATOR CONTACT NAME: LYNN Anderson  
OPERATOR CONTACT TITLE: Not reported  
OPERATOR CONTACT PHONE: 626-445-2925  
OPERATOR CONTACT PHONE EXT: Not reported  
OPERATOR CONTACT EMAIL: Not reported  
OPERATOR TYPE: Other  
DEVELOPER NAME: Pick A Partners Auto Dismantling Inc  
DEVELOPER ADDRESS: 3333 Peck Rd  
DEVELOPER CITY: Monrovia  
DEVELOPER STATE: California  
DEVELOPER ZIP: 91016  
DEVELOPER CONTACT NAME: Lynn Anderson  
DEVELOPER CONTACT TITLE: Not reported  
CONSTYPE LINEAR UTILITY IND: Not reported  
EMERGENCY PHONE NO: 626-445-2922  
EMERGENCY PHONE EXT: Not reported  
CONSTYPE ABOVE GROUND IND: Not reported  
CONSTYPE BELOW GROUND IND: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

AMERICAN RECYCLING INTERNATIONAL DBA PICK A PART AUTO DISMAN (Continued)

S104565248

CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERCIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Y
CONSTYPE OTHER DESCRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Lynn Anderson
CERTIFIER TITLE:	Secretary
CERTIFICATION DATE:	20-OCT-03
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	CAS000001
Facility Status:	Active
Agency Id:	0
Region:	4
Regulatory Measure Id:	190029
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 191010791
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	12/14/1993
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Pick A Part
Discharge Address:	500 West Madison St
Discharge City:	Chicago
Discharge State:	Illinois
Discharge Zip:	60661
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

AMERICAN RECYCLING INTERNATIONAL DBA PICK A PART AUTO DISMAN (Continued)

S104565248

OPERATOR ZIP: Not reported  
OPERATOR CONTACT NAME: Not reported  
OPERATOR CONTACT TITLE: Not reported  
OPERATOR CONTACT PHONE: Not reported  
OPERATOR CONTACT PHONE EXT: Not reported  
OPERATOR CONTACT EMAIL: Not reported  
OPERATOR TYPE: Not reported  
DEVELOPER NAME: Not reported  
DEVELOPER ADDRESS: Not reported  
DEVELOPER CITY: Not reported  
DEVELOPER STATE: Not reported  
DEVELOPER ZIP: Not reported  
DEVELOPER CONTACT NAME: Not reported  
DEVELOPER CONTACT TITLE: Not reported  
CONSTYPE LINEAR UTILITY IND: Not reported  
EMERGENCY PHONE NO: Not reported  
EMERGENCY PHONE EXT: Not reported  
CONSTYPE ABOVE GROUND IND: Not reported  
CONSTYPE BELOW GROUND IND: Not reported  
CONSTYPE CABLE LINE IND: Not reported  
CONSTYPE COMM LINE IND: Not reported  
CONSTYPE COMMERTIAL IND: Not reported  
CONSTYPE ELECTRICAL LINE IND: Not reported  
CONSTYPE GAS LINE IND: Not reported  
CONSTYPE INDUSTRIAL IND: Not reported  
CONSTYPE OTHER DESRIPTION: Not reported  
CONSTYPE OTHER IND: Not reported  
CONSTYPE RECONS IND: Not reported  
CONSTYPE RESIDENTIAL IND: Not reported  
CONSTYPE TRANSPORT IND: Not reported  
CONSTYPE UTILITY DESCRIPTION: Not reported  
CONSTYPE UTILITY IND: Not reported  
CONSTYPE WATER SEWER IND: Not reported  
DIR DISCHARGE USWATER IND: Not reported  
RECEIVING WATER NAME: Not reported  
CERTIFIER NAME: Not reported  
CERTIFIER TITLE: Not reported  
CERTIFICATION DATE: Not reported  
PRIMARY SIC: Not reported  
SECONDARY SIC: Not reported  
TERTIARY SIC: Not reported

D16  
ENE  
1/8-1/4  
0.203 mi.  
1071 ft.

CHICAGO PARK  
5700 PECK  
IRWINDALE, CA 91016

SLIC S104791959  
N/A

Site 4 of 4 in cluster D

Relative:  
Lower

SLIC REG 4:  
Region: 4  
Facility Status: No further action required  
SLIC: 0984  
Substance: nitrate  
Staff: BPB

Actual:  
347 ft.

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

<b>E17</b>	<b>PECK ROAD GRAVEL PIT (ENGINEERED FILL)</b>	<b>SWF/LF</b>	<b>S118939156</b>
<b>East</b>	<b>128 EAST LIVE OAK AVENUE</b>		<b>N/A</b>
<b>1/8-1/4</b>	<b>MONROVIA, CA 91706</b>		
<b>0.215 mi.</b>			
<b>1136 ft.</b>	<b>Site 1 of 4 in cluster E</b>		
<b>Relative:</b>	LOS ANGELES CO. LF:		
<b>Lower</b>	Site ID:	2264	
	Alt. Address:	Not reported	
	Site Contact:	Not reported	
<b>Actual:</b>	Site Contact Phone:	(626) 574-7570	
<b>346 ft.</b>	Site Email:	Not reported	
	Site Website:	Not reported	
	Site Type:	Inert Debris Engineered Fill Operation	
	Site SWIS Number:	19-AA-0838	
	Beginning Operation Date:	Aug-87	
	Ending Operation Date:	Estimated	
	Local Enforcement Agency:	County Public Health	
	Maximun Depth Fill(Ft):	100	
	Permitted Capacity:	1400	
	Present Use:	LANDFILLING OPERATION	
	Remaining Capacity(Million):	ESTIMATED 6.2 MILLION CUBIC YARDS OR 9.4 MILLION TONS AS OF DECEMBER 2009	
	Status:	Active	
	Waste Accepted:	Inert;	
	Hours of Operation:	Mon - Fri 6 AM to 5 PM; Sat 6 AM - 3PM	
	Disposal Area (Acre):	Not reported	
	Detail As Of 01/2014:		
	Operator Name:	SLS&N, Inc.	
	Operator Address:	128 East Live Oak	
	Operator City/State/Zip:	Monrovia, CA 91017	
	Operator Contact:	Not reported	
	Operator Telephone:	Not reported	
	Operator Email:	bakalou@earthlink.net	
	Owner Name:	S.L.S. & N, INC.	
	Owner Address:	128 East Live Oak Avenue	
	Owner City/State/Zip:	Monrovia, CA 91017	
	Owner Contact:	Louise Bubalo	
	Owner Telephone:	(626) 574-1855	
	Owner Email:	bakalou@earthlink.net	

<b>E18</b>	<b>PECK ROAD GRAVEL PIT (INERT)</b>	<b>SWF/LF</b>	<b>S118939157</b>
<b>East</b>	<b>128 EAST LIVE OAK AVENUE</b>		<b>N/A</b>
<b>1/8-1/4</b>	<b>MONROVIA, CA 91706</b>		
<b>0.215 mi.</b>			
<b>1136 ft.</b>	<b>Site 2 of 4 in cluster E</b>		
<b>Relative:</b>	LOS ANGELES CO. LF:		
<b>Lower</b>	Site ID:	12	
	Alt. Address:	Not reported	
	Site Contact:	Not reported	
<b>Actual:</b>	Site Contact Phone:	(626) 574-7570	
<b>346 ft.</b>	Site Email:	Not reported	
	Site Website:	Not reported	
	Site Type:	Inert Landfill	
	Site SWIS Number:	19-AA-0838	
	Beginning Operation Date:	Aug-87	
	Ending Operation Date:	Mar-11	
	Local Enforcement Agency:	County Public Health	
	Maximun Depth Fill(Ft):	100	

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PECK ROAD GRAVEL PIT (INERT) (Continued)**

**S118939157**

Permitted Capacity: Not reported  
Present Use: Landfilling Operation  
Remaining Capacity(Million): Estimated 6.2 Million Cubic Yards or 9.4 Million Tons as of December 2009  
Status: Closed  
Waste Accepted: Not reported  
Hours of Operation: Not reported  
Disposal Area (Acre): Not reported

Detail As Of 01/2014:

Operator Name: SLS&N, Inc.  
Operator Address: 128 East Live Oak  
Operator City/State/Zip: Monrovia, CA 91017  
Operator Contact: Not reported  
Operator Telephone: Not reported  
Operator Email: bakalou@earthlink.net  
Owner Name: S.L.S. & N, INC.  
Owner Address: 128 East Live Oak Avenue  
Owner City/State/Zip: Monrovia, CA 91017  
Owner Contact: Louise Bubalo  
Owner Telephone: (626) 574-1855  
Owner Email: bakalou@earthlink.net

**E19**  
**East**  
**1/8-1/4**  
**0.217 mi.**  
**1146 ft.**

**REBECCA LAND/SHATTO TRUST PROP**  
**124 LIVE OAK AVE**  
**IRWINDALE, CA 91706**

**Site 3 of 4 in cluster E**

**LUST** **S102590750**  
**SWEEPS UST** **N/A**  
**HIST UST**  
**HIST CORTESE**

**Relative:**  
**Lower**

**LUST:**

Region: STATE  
Global Id: T0603704513  
Latitude: 34.110537  
Longitude: -118.004561  
Case Type: LUST Cleanup Site  
Status: Completed - Case Closed  
Status Date: 06/27/1997  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Case Worker: YR  
Local Agency: LOS ANGELES COUNTY  
RB Case Number: R-00132  
LOC Case Number: Not reported  
File Location: Not reported  
Potential Media Affect: Soil  
Potential Contaminants of Concern: Diesel  
Site History: Not reported

**Actual:**  
**347 ft.**

Click here to access the California GeoTracker records for this facility:

**Contact:**

Global Id: T0603704513  
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: T0603704513

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**REBECCA LAND/SHATTO TRUST PROP (Continued)**

**S102590750**

Contact Type: Regional Board Caseworker  
Contact Name: YUE RONG  
Organization Name: LOS ANGELES RWQCB (REGION 4)  
Address: 320 W. 4TH ST., SUITE 200  
City: Los Angeles  
Email: yrong@waterboards.ca.gov  
Phone Number: Not reported

Status History:

Global Id: T0603704513  
Status: Completed - Case Closed  
Status Date: 06/27/1997

Global Id: T0603704513  
Status: Open - Case Begin Date  
Status Date: 03/05/1997

Global Id: T0603704513  
Status: Open - Site Assessment  
Status Date: 04/04/1997

Regulatory Activities:

Global Id: T0603704513  
Action Type: Other  
Date: 03/05/1997  
Action: Leak Discovery

Global Id: T0603704513  
Action Type: Other  
Date: 04/04/1997  
Action: Leak Reported

LUST REG 4:

Region: 4  
Regional Board: 04  
County: Los Angeles  
Facility Id: R-00132  
Status: Case Closed  
Substance: Diesel  
Substance Quantity: Not reported  
Local Case No: Not reported  
Case Type: Soil  
Abatement Method Used at the Site: Excavate and Dispose  
Global ID: T0603704513  
W Global ID: Not reported  
Staff: UNK  
Local Agency: 19000  
Cross Street: PECK RD/MYRTLE AVE  
Enforcement Type: Not reported  
Date Leak Discovered: 3/5/1997  
Date Leak First Reported: 4/4/1997  
Date Leak Record Entered: 6/23/1997  
Date Confirmation Began: Not reported  
Date Leak Stopped: Not reported  
Date Case Last Changed on Database: 6/20/1997



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**REBECCA LAND/SHATTO TRUST PROP (Continued)**

**S102590750**

Date the Case was Closed: 6/27/1997  
How Leak Discovered: OM  
How Leak Stopped: Not reported  
Cause of Leak: Not reported  
Leak Source: UNK  
Operator: Not reported  
Water System: Not reported  
Well Name: Not reported  
Approx. Dist To Production Well (ft): 1580.1392343794160225598463951  
Source of Cleanup Funding: UNK  
Preliminary Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: 4/4/1997  
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: Yes  
GW Qualifier: Not reported  
Soil Qualifier: Not reported  
Organization: Not reported  
Owner Contact: Not reported  
Responsible Party: SHATTO TRUST  
RP Address: 415 N LARKIN ST., COVINA CA 91722  
Program: LUST  
Lat/Long: 34.1110879 / -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: 04/09/97 - TANK REMOVAL & SITE REMEDIATION GEOLOGIC RPT

**SWEEPS UST:**

Status: Active  
Comp Number: 132  
Number: 9  
Board Of Equalization: 44-007387  
Referral Date: 06-30-89  
Action Date: Not reported  
Created Date: 06-30-89  
Owner Tank Id: Not reported  
SWRCB Tank Id: 19-000-000132-000001  
Tank Status: A  
Capacity: Not reported  
Active Date: 06-30-89  
Tank Use: UNKNOWN  
STG: W  
Content: Not reported  
Number Of Tanks: 5  
  
Status: Active  
Comp Number: 132

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

REBECCA LAND/SHATTO TRUST PROP (Continued)

S102590750

Number: 9  
Board Of Equalization: 44-007387  
Referral Date: 06-30-89  
Action Date: Not reported  
Created Date: 06-30-89  
Owner Tank Id: Not reported  
SWRCB Tank Id: 19-000-000132-000002  
Tank Status: A  
Capacity: Not reported  
Active Date: 06-30-89  
Tank Use: UNKNOWN  
STG: W  
Content: Not reported  
Number Of Tanks: Not reported

Status: Active  
Comp Number: 132  
Number: 9  
Board Of Equalization: 44-007387  
Referral Date: 06-30-89  
Action Date: Not reported  
Created Date: 06-30-89  
Owner Tank Id: Not reported  
SWRCB Tank Id: 19-000-000132-000003  
Tank Status: A  
Capacity: Not reported  
Active Date: 06-30-89  
Tank Use: UNKNOWN  
STG: W  
Content: Not reported  
Number Of Tanks: Not reported

Status: Active  
Comp Number: 132  
Number: 9  
Board Of Equalization: 44-007387  
Referral Date: 06-30-89  
Action Date: Not reported  
Created Date: 06-30-89  
Owner Tank Id: Not reported  
SWRCB Tank Id: 19-000-000132-000004  
Tank Status: A  
Capacity: Not reported  
Active Date: 06-30-89  
Tank Use: UNKNOWN  
STG: W  
Content: Not reported  
Number Of Tanks: Not reported

Status: Active  
Comp Number: 132  
Number: 9  
Board Of Equalization: 44-007387  
Referral Date: 06-30-89  
Action Date: Not reported  
Created Date: 06-30-89  
Owner Tank Id: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**REBECCA LAND/SHATTO TRUST PROP (Continued)**

**S102590750**

SWRCB Tank Id: 19-000-000132-000005  
Tank Status: A  
Capacity: Not reported  
Active Date: 06-30-89  
Tank Use: UNKNOWN  
STG: W  
Content: Not reported  
Number Of Tanks: Not reported

**HIST UST:**

File Number: 000288BA  
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000288BA.pdf>  
Region: Not reported  
Facility ID: Not reported  
Facility Type: Not reported  
Other Type: Not reported  
Contact Name: Not reported  
Telephone: Not reported  
Owner Name: Not reported  
Owner Address: Not reported  
Owner City,St,Zip: Not reported  
Total Tanks: Not reported

Tank Num: Not reported  
Container Num: Not reported  
Year Installed: Not reported  
Tank Capacity: Not reported  
Tank Used for: Not reported  
Type of Fuel: Not reported  
Container Construction Thickness: Not reported  
Leak Detection: Not reported

Click here for Geo Tracker PDF:

**HIST CORTESE:**

Region: CORTESE  
Facility County Code: 19  
Reg By: LTNKA  
Reg Id: R-00132

**F20**  
**ENE**  
**1/8-1/4**  
**0.235 mi.**  
**1241 ft.**

**LA CO DPW SEWER MNT-EAST YARD**  
**2849 MYRTLE AVE**  
**BALDWIN PARK, CA 91706**  
**Site 1 of 2 in cluster F**

**UST U004049657**  
**N/A**

**Relative:**  
**Higher**

UST:  
Facility ID: 3951  
Permitting Agency: LOS ANGELES COUNTY  
Latitude: 34.114081  
Longitude: -118.002766

**Actual:**  
**361 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**F21**      **SEWER MAINTENANCE (N YARD)**  
**ENE**      **2849 S MYRTLE**  
**1/8-1/4**    **IRWINDALE, CA 91706**  
**0.235 mi.**  
**1241 ft.**    **Site 2 of 2 in cluster F**

**SWEEPS UST**    **S102059045**  
**HIST UST**      **N/A**  
**LOS ANGELES CO. HMS**

**Relative:**  
**Higher**

**Actual:**  
**361 ft.**

**SWEEPS UST:**  
Status: Not reported  
Comp Number: 3951  
Number: Not reported  
Board Of Equalization: 44-007782  
Referral Date: Not reported  
Action Date: Not reported  
Created Date: Not reported  
Owner Tank Id: Not reported  
SWRCB Tank Id: 19-000-003951-000001  
Tank Status: Not reported  
Capacity: 1000  
Active Date: Not reported  
Tank Use: M.V. FUEL  
STG: PRODUCT  
Content: DIESEL  
Number Of Tanks: 2

Status: Not reported  
Comp Number: 3951  
Number: Not reported  
Board Of Equalization: 44-007782  
Referral Date: Not reported  
Action Date: Not reported  
Created Date: Not reported  
Owner Tank Id: Not reported  
SWRCB Tank Id: 19-000-003951-000002  
Tank Status: Not reported  
Capacity: 2000  
Active Date: Not reported  
Tank Use: M.V. FUEL  
STG: PRODUCT  
Content: REG UNLEADED  
Number Of Tanks: Not reported

Status: Active  
Comp Number: 3951  
Number: 5  
Board Of Equalization: 44-007782  
Referral Date: 01-04-91  
Action Date: 01-04-91  
Created Date: 06-30-89  
Owner Tank Id: 3  
SWRCB Tank Id: 19-000-003951-000003  
Tank Status: A  
Capacity: 2000  
Active Date: 01-04-91  
Tank Use: M.V. FUEL  
STG: P  
Content: REG UNLEADED  
Number Of Tanks: 2

Status: Active

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SEWER MAINTENANCE (N YARD) (Continued)**

**S102059045**

Comp Number: 3951  
Number: 5  
Board Of Equalization: 44-007782  
Referral Date: 01-04-91  
Action Date: 01-04-91  
Created Date: 06-30-89  
Owner Tank Id: 4  
SWRCB Tank Id: 19-000-003951-000004  
Tank Status: A  
Capacity: 1000  
Active Date: 01-04-91  
Tank Use: M.V. FUEL  
STG: P  
Content: DIESEL  
Number Of Tanks: Not reported

**HIST UST:**

File Number: 0002744A  
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002744A.pdf>  
Region: Not reported  
Facility ID: Not reported  
Facility Type: Not reported  
Other Type: Not reported  
Contact Name: Not reported  
Telephone: Not reported  
Owner Name: Not reported  
Owner Address: Not reported  
Owner City,St,Zip: Not reported  
Total Tanks: Not reported

Tank Num: Not reported  
Container Num: Not reported  
Year Installed: Not reported  
Tank Capacity: Not reported  
Tank Used for: Not reported  
Type of Fuel: Not reported  
Container Construction Thickness: Not reported  
Leak Detection: Not reported

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**LOS ANGELES CO. HMS:**

Region: LA  
Permit Category: Not reported  
Facility Id: 003821-022924  
Facility Type: Not reported  
Facility Status: OPEN  
Area: 3S  
Permit Number: Not reported  
Permit Status: Not reported



MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**E22**  
**East**  
**1/8-1/4**  
**0.236 mi.**  
**1244 ft.**

**PECK ROAD GRAVEL**  
**128 E LIVE OAK AVE**  
**MONROVIA, CA 91016**  
  
**Site 4 of 4 in cluster E**

**AST** **A100423213**  
**N/A**

**Relative:**  
**Lower**

AST:  
Certified Unified Program Agencies: Not reported  
Owner: S L S & N INC  
Total Gallons: Not reported  
CERSID: 10309612  
Facility ID: LACoFA0016298  
Business Name: PECK ROAD GRAVEL  
Phone: (818) 574-7570  
Fax: Not reported  
Mailing Address: 128 E LIVE OAK AVE  
Mailing Address City: MONROVIA  
Mailing Address State: CA  
Mailing Address Zip Code: 91016  
Operator Name: Peck road gravel  
Operator Phone: 626-574-1855  
Owner Phone: 626-574-1855  
Owner Mail Address: PO BOX 1286  
Owner State: CA  
Owner Zip Code: 91016  
Owner Country: United States  
Property Owner Name: SLS&N  
Property Owner Phone: (818) 574-1855  
Property Owner Mailing Address: 128 E. Live Oak Ave  
Property Owner City: Monrovia  
Property Owner Stat : CA  
Property Owner Zip Code: 91016  
Property Owner Country: United States  
EPAID: CAD983612045

**23**  
**East**  
**1/8-1/4**  
**0.246 mi.**  
**1297 ft.**

**PIC A PART AUTO SALVAGE**  
**4414 LIVE OAK AVE E**  
**MONROVIA, CA 91016**

**SWF/LF** **S101297530**  
**LUST** **N/A**  
**SWEEPS UST**  
**HIST CORTESE**

**Relative:**  
**Lower**

LOS ANGELES CO. LF:  
Site ID: 2042  
Alt. Address: 4500 East Live Oak Avenue, El Monte, CA; 3333 Live Oak Avenue, Arcadia, CA  
Site Contact: Not reported  
Site Contact Phone: Not reported  
Site Email: Not reported  
Site Website: Not reported  
Site Type: Municipal Solid Waste Landfill  
Site SWIS Number: 19-AA-0779  
Beginning Operation Date: Not reported  
Ending Operation Date: Dec-61  
Local Enforcement Agency: County Public Health  
Maximun Depth Fill(Ft): Not reported  
Permitted Capacity: Not reported  
Present Use: Commercial  
Remaining Capacity(Million): Not reported  
Status: Closed  
Waste Accepted: Commercial; Inert; Residential  
Hours of Operation: Not reported

**Actual:**  
**352 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PIC A PART AUTO SALVAGE (Continued)**

**S101297530**

Disposal Area (Acre): Not reported  
Detail As Of 01/2014:  
Operator Name: Unknown  
Operator Address: Not reported  
Operator City/State/Zip: Not reported  
Operator Contact: Not reported  
Operator Telephone: Not reported  
Operator Email: Not reported  
Owner Name: Parts Company, Inc  
Owner Address: 2540 Huntington Drive  
Owner City/State/Zip: San Marino, CA 91180  
Owner Contact: Not reported  
Owner Telephone: (818) 287-6217  
Owner Email: Not reported

**LUST REG 4:**

Region: 4  
Regional Board: 04  
County: Los Angeles  
Facility Id: I-14428  
Status: Preliminary site assessment underway  
Substance: Gasoline  
Substance Quantity: Not reported  
Local Case No: Not reported  
Case Type: Soil  
Abatement Method Used at the Site: Not reported  
Global ID: T0603704166  
W Global ID: Not reported  
Staff: UNK  
Local Agency: 19000  
Cross Street: PECK RD.  
Enforcement Type: 222  
Date Leak Discovered: 4/6/1990  
Date Leak First Reported: 5/2/1990  
Date Leak Record Entered: 6/20/1990  
Date Confirmation Began: Not reported  
Date Leak Stopped: 5/6/1990  
Date Case Last Changed on Database: 6/30/1992  
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: ANDERSON, LYNN  
Water System: Not reported  
Well Name: Not reported  
Approx. Dist To Production Well (ft): 1406.2733147029749545740781105  
Source of Cleanup Funding: UNK  
Preliminary Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: 4/6/1990  
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: 1/1/1965  
Historical Max MTBE Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PIC A PART AUTO SALVAGE (Continued)**

**S101297530**

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: PIC A PART AUTO SALVAGE  
RP Address: 4414 LIVE OAK AVE., E., MONROVIA, 91016  
Program: LUST  
Lat/Long: 34.1111689 / -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

**SWEEPS UST:**

Status: Not reported  
Comp Number: 14428  
Number: Not reported  
Board Of Equalization: Not reported  
Referral Date: Not reported  
Action Date: Not reported  
Created Date: Not reported  
Owner Tank Id: Not reported  
SWRCB Tank Id: 19-000-014428-000001  
Tank Status: Not reported  
Capacity: 2000  
Active Date: Not reported  
Tank Use: OIL  
STG: WASTE  
Content: Not reported  
Number Of Tanks: 3

Status: Not reported  
Comp Number: 14428  
Number: Not reported  
Board Of Equalization: Not reported  
Referral Date: Not reported  
Action Date: Not reported  
Created Date: Not reported  
Owner Tank Id: Not reported  
SWRCB Tank Id: 19-000-014428-000002  
Tank Status: Not reported  
Capacity: 6000  
Active Date: Not reported  
Tank Use: M.V. FUEL  
STG: PRODUCT  
Content: DIESEL  
Number Of Tanks: Not reported

Status: Not reported  
Comp Number: 14428  
Number: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PIC A PART AUTO SALVAGE (Continued)**

**S101297530**

Board Of Equalization: Not reported  
Referral Date: Not reported  
Action Date: Not reported  
Created Date: Not reported  
Owner Tank Id: Not reported  
SWRCB Tank Id: 19-000-014428-000003  
Tank Status: Not reported  
Capacity: 6000  
Active Date: Not reported  
Tank Use: M.V. FUEL  
STG: PRODUCT  
Content: REG UNLEADED  
Number Of Tanks: Not reported

HIST CORTESE:

Region: CORTESE  
Facility County Code: 19  
Reg By: LTNKA  
Reg Id: I-14428

**G24**  
**ENE**  
**1/4-1/2**  
**0.265 mi.**  
**1400 ft.**

**LA CO DPW SEWER MNT-EAST**  
**2849 MYRTLE**  
**IRWINDALE, CA 91707**

**HIST CORTESE** **S101296487**  
**N/A**

**Site 1 of 2 in cluster G**

**Relative:**  
**Higher**

HIST CORTESE:  
Region: CORTESE  
Facility County Code: 19  
Reg By: LTNKA  
Reg Id: I-03951

**Actual:**  
**363 ft.**

**G25**  
**ENE**  
**1/4-1/2**  
**0.265 mi.**  
**1400 ft.**

**LA CO DPW SEWER EAST YARD**  
**2849 MYRTLE AVE**  
**IRWINDALE, CA 91706**

**LUST** **S102059044**  
**LOS ANGELES CO. HMS** **N/A**

**Site 2 of 2 in cluster G**

**Relative:**  
**Higher**

LUST:  
Region: STATE  
Global Id: T0603702956  
Latitude: 34.112812  
Longitude: -118.00405  
Case Type: LUST Cleanup Site  
Status: Completed - Case Closed  
Status Date: 08/03/1993  
Lead Agency: LOS ANGELES COUNTY  
Case Worker: JOA  
Local Agency: LOS ANGELES COUNTY  
RB Case Number: I-03951  
LOC Case Number: Not reported  
File Location: Not reported  
Potential Media Affect: Soil  
Potential Contaminants of Concern: Diesel  
Site History: Not reported

**Actual:**  
**363 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

LA CO DPW SEWER EAST YARD (Continued)

S102059044

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Contact:

Global Id: T0603702956  
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: T0603702956  
Contact Type: Regional Board Caseworker  
Contact Name: YUE RONG  
Organization Name: LOS ANGELES RWQCB (REGION 4)  
Address: 320 W. 4TH ST., SUITE 200  
City: Los Angeles  
Email: yrong@waterboards.ca.gov  
Phone Number: Not reported

Status History:

Global Id: T0603702956  
Status: Completed - Case Closed  
Status Date: 08/03/1993

Global Id: T0603702956  
Status: Open - Case Begin Date  
Status Date: 05/20/1991

Global Id: T0603702956  
Status: Open - Site Assessment  
Status Date: 06/09/1992

Regulatory Activities:

Global Id: T0603702956  
Action Type: Other  
Date: 05/20/1991  
Action: Leak Discovery

Global Id: T0603702956  
Action Type: Other  
Date: 05/20/1991  
Action: Leak Stopped

Global Id: T0603702956  
Action Type: Other  
Date: 06/09/1992  
Action: Leak Reported

LUST REG 4:

Region: 4  
Regional Board: 04  
County: Los Angeles



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

LA CO DPW SEWER EAST YARD (Continued)

S102059044

Facility Id: I-03951  
Status: Case Closed  
Substance: Diesel  
Substance Quantity: Not reported  
Local Case No: Not reported  
Case Type: Soil  
Abatement Method Used at the Site: Not reported  
Global ID: T0603702956  
W Global ID: Not reported  
Staff: UNK  
Local Agency: 19000  
Cross Street: LONGDEN AVE.  
Enforcement Type: Not reported  
Date Leak Discovered: 5/20/1991  
Date Leak First Reported: 6/9/1992  
Date Leak Record Entered: 5/27/1992  
Date Confirmation Began: Not reported  
Date Leak Stopped: 5/20/1991  
Date Case Last Changed on Database: 8/3/1993  
Date the Case was Closed: 8/3/1993  
How Leak Discovered: Tank Closure  
How Leak Stopped: Not reported  
Cause of Leak: UNK  
Leak Source: UNK  
Operator: VAICARO, BART  
Water System: Not reported  
Well Name: Not reported  
Approx. Dist To Production Well (ft): 919.6461438785416513060695759  
Source of Cleanup Funding: UNK  
Preliminary Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: 6/9/1992  
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: RAY KHAJASTEH  
RP Address: 900 S. FREMONT AVE., ALHAMBRA, 91803  
Program: LUST  
Lat/Long: 34.1133818 / -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: REFER TO LA CO DPW COMPLETE RECORD FOR STATUS 9 UPDATE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

LA CO DPW SEWER EAST YARD (Continued)

S102059044

LOS ANGELES CO. HMS:

Region: LA  
Permit Category: T  
Facility Id: 003821-003951  
Facility Type: 0  
Facility Status: Removed  
Area: 3S  
Permit Number: 00001176T  
Permit Status: Removed

26  
NE  
1/4-1/2  
0.286 mi.  
1510 ft.

KING'S GAS MARKET & CARWASH  
110 LONGDEN AVE #A  
IRWINDALE, CA 91706

LUST  
HIST CORTESE  
LOS ANGELES CO. HMS  
S102055562  
N/A

Relative:  
Higher

LUST:

Actual:  
364 ft.

Region: STATE  
Global Id: T0603792934  
Latitude: 34.113913  
Longitude: -118.00414  
Case Type: LUST Cleanup Site  
Status: Completed - Case Closed  
Status Date: 06/28/1990  
Lead Agency: LOS ANGELES COUNTY  
Case Worker: JOA  
Local Agency: LOS ANGELES COUNTY  
RB Case Number: I-04935  
LOC Case Number: Not reported  
File Location: Not reported  
Potential Media Affect: Soil  
Potential Contaminants of Concern: Gasoline  
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

Contact:

Global Id: T0603792934  
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: T0603792934  
Contact Type: Regional Board Caseworker  
Contact Name: YUE RONG  
Organization Name: LOS ANGELES RWQCB (REGION 4)  
Address: 320 W. 4TH ST., SUITE 200  
City: Los Angeles  
Email: yrong@waterboards.ca.gov  
Phone Number: Not reported

Status History:

Global Id: T0603792934

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KING'S GAS MARKET & CARWASH (Continued)**

**S102055562**

Status: Completed - Case Closed  
Status Date: 06/28/1990

Global Id: T0603792934  
Status: Open - Case Begin Date  
Status Date: 11/18/1988

Regulatory Activities:

Global Id: T0603792934  
Action Type: Other  
Date: 11/18/1988  
Action: Leak Reported

LUST REG 4:

Region: 4  
Regional Board: 04  
County: Los Angeles  
Facility Id: I-04935  
Status: Case Closed  
Substance: Gasoline  
Substance Quantity: Not reported  
Local Case No: Not reported  
Case Type: Soil  
Abatement Method Used at the Site: Not reported  
Global ID: T0603792934  
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: 11/18/1988  
Date Leak Record Entered: 8/4/1989  
Date Confirmation Began: Not reported  
Date Leak Stopped: Not reported  
Date Case Last Changed on Database: 7/14/1994  
Date the Case was Closed: 6/28/1990  
How Leak Discovered: Not reported  
How Leak Stopped: Not reported  
Cause of Leak: Not reported  
Leak Source: Not reported  
Operator: GHARIB, MAKRAM  
Water System: Not reported  
Well Name: Not reported  
Approx. Dist To Production Well (ft): 644.53478094433934234177738078  
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

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KING'S GAS MARKET & CARWASH (Continued)**

**S102055562**

Hist Max MTBE Conc in Soil: Not reported  
Significant Interim Remedial Action Taken: Not reported  
GW Qualifier: Not reported  
Soil Qualifier: Not reported  
Organization: Not reported  
Owner Contact: Not reported  
Responsible Party: ARCO AM/PM  
RP Address: 110 LONGDEN AVENUE, E., IRWINDALE, 91706  
Program: LUST  
Lat/Long: 34.113913 / -1  
Local Agency Staff: Not reported  
Beneficial Use: Not reported  
Priority: Not reported  
Cleanup Fund Id: Not reported  
Suspended: Not reported  
Assigned Name: Not reported  
Summary: Not reported

**HIST CORTESE:**

Region: CORTESE  
Facility County Code: 19  
Reg By: LTNKA  
Reg Id: I-04935

**LOS ANGELES CO. HMS:**

Region: LA  
Permit Category: T  
Facility Id: 004750-004935  
Facility Type: 0  
Facility Status: Closed  
Area: 3S  
Permit Number: 00000136T  
Permit Status: Closed

Region: LA  
Permit Category: T  
Facility Id: 004750-009166  
Facility Type: 0  
Facility Status: Removed  
Area: 3S  
Permit Number: 00000150T  
Permit Status: Removed

Region: LA  
Permit Category: I  
Facility Id: 004750-020694  
Facility Type: 02  
Facility Status: Closed  
Area: 3S  
Permit Number: 000084247  
Permit Status: Closed

Region: LA  
Permit Category: I  
Facility Id: 004750-048968  
Facility Type: 02

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**KING'S GAS MARKET & CARWASH (Continued)**

**S102055562**

Facility Status: Permit  
 Area: 3S  
 Permit Number: 000538521  
 Permit Status: Permit

**H27**  
**ESE**  
**1/4-1/2**  
**0.299 mi.**  
**1580 ft.**

**HAROLD SIMPSON GRADING CO DISP**  
**200 EAST LIVE OAK AVE**  
**IRWINDALE, CA 91706**

**SWF/LF**  
**WMUDS/SWAT**  
**LOS ANGELES CO. HMS**

**S104156345**  
**N/A**

**Site 1 of 2 in cluster H**

**Relative:**  
**Lower**

LOS ANGELES CO. LF:

Site ID: 1957  
 Alt. Address: Not reported  
 Site Contact: Not reported  
 Site Contact Phone: Not reported  
 Site Email: Not reported  
 Site Website: Not reported  
 Site Type: Municipal Solid Waste Landfill  
 Site SWIS Number: 19-AA-0021  
 Beginning Operation Date: Not reported  
 Ending Operation Date: 1984  
 Local Enforcement Agency: Not reported  
 Maximun Depth Fill(Ft): Not reported  
 Permitted Capacity: Not reported  
 Present Use: Vacant; Parking Lot  
 Remaining Capacity(Million): Not reported  
 Status: Closed  
 Waste Accepted: Inert  
 Hours of Operation: Not reported  
 Disposal Area (Acre): 2.5

**Actual:**  
**287 ft.**

Detail As Of 01/2014:

Operator Name: Multiple Operators (See Notes)  
 Operator Address: Not reported  
 Operator City/State/Zip: Not reported  
 Operator Contact: Not reported  
 Operator Telephone: Not reported  
 Operator Email: Not reported  
 Owner Name: Multiple Owners (See Notes)  
 Owner Address: Not reported  
 Owner City/State/Zip: Not reported  
 Owner Contact: Not reported  
 Owner Telephone: Not reported  
 Owner Email: Not reported

WMUDS/SWAT:

Edit Date: Not reported  
 Complexity: Not reported  
 Primary Waste: Not reported  
 Primary Waste Type: Not reported  
 Secondary Waste: Not reported  
 Secondary Waste Type: Not reported  
 Base Meridian: Not reported  
 NPID: Not reported  
 Tonnage: 0  
 Regional Board ID: Not reported  
 Municipal Solid Waste: False



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HAROLD SIMPSON GRADING CO DISP (Continued)**

**S104156345**

Superorder: False  
Open To Public: False  
Waste List: False  
Agency Type: Not reported  
Agency Name: HAROLD SIMPSON GRADING COMPANY  
Agency Department: Not reported  
Agency Address: Not reported  
Agency City,St,Zip: Not reported  
Agency Contact: Not reported  
Agency Telephone: 2134454220  
Land Owner Name: HAROLD SIMPSON GRADING COMPANY  
Land Owner Address: Not reported  
Land Owner City,St,Zip: CA 91706  
Land Owner Contact: Not reported  
Land Owner Phone: 2134454220  
Region: 4  
Facility Type: Not reported  
Facility Description: Not reported  
Facility Telephone: Not reported  
SWAT Facility Name: HAROLD SIMPSON GRADING CO DISPOSAL SIT  
Primary SIC: Not reported  
Secondary SIC: Not reported  
Comments: Not reported  
Last Facility Editors: Not reported  
Waste Discharge System: False  
Solid Waste Assessment Test Program: True  
Toxic Pits Cleanup Act Program: False  
Resource Conservation Recovery Act: False  
Department of Defence: False  
Solid Waste Assessment Test Program: HAROLD SIMPSON GRADING COMPANY  
Threat to Water Quality: Not reported  
Sub Chapter 15: False  
Regional Board Project Officer: R\_N  
Number of WMUDS at Facility: 1  
Section Range: Not reported  
RCRA Facility: Not reported  
Waste Discharge Requirements: Not reported  
Self-Monitoring Rept. Frequency: Not reported  
Waste Discharge System ID: 4 190211NUR  
Solid Waste Information ID: 19-AA-0021

**LOS ANGELES CO. HMS:**

Region: LA  
Permit Category: T  
Facility Id: 000655-000659  
Facility Type: 0  
Facility Status: Removed  
Area: 3S  
Permit Number: 000706266  
Permit Status: Removed

Region: LA  
Permit Category: Not reported  
Facility Id: 000655-100659  
Facility Type: Not reported  
Facility Status: OPEN  
Area: 3S

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HAROLD SIMPSON GRADING CO DISP (Continued)**

**S104156345**

Permit Number: Not reported  
Permit Status: Not reported

**H28  
ESE  
1/4-1/2  
0.299 mi.  
1580 ft.**

**SIMPSON GRADING - PASADENA  
200 E. LIVE OAK AVENUE  
IRWINDALE, CA 91706**

**SWF/LF  
LDS U003057077  
N/A**

**Site 2 of 2 in cluster H**

**Relative:  
Lower**

SWF/LF (SWIS):  
Region: STATE  
Facility ID: 19-AA-0021  
Lat/Long: 34.11083 / -118.00444  
Owner Name: Multiple Owners  
Owner Telephone: Not reported  
Owner Address: Not reported  
Owner Address2: Not reported  
Owner City,St,Zip: Not reported  
Operational Status: Closed  
Operator: Not reported  
Operator Phone: Not reported  
Operator Address: Not reported  
Operator Address2: Not reported  
Operator City,St,Zip: Not reported  
Permit Date: Not reported  
Permit Status: Not reported  
Permitted Acreage: \$0.00  
Activity: Solid Waste Disposal Site  
Regulation Status: Unpermitted  
Landuse Name: Industrial,Commercial  
GIS Source: Map  
Category: Disposal  
Unit Number: 01  
Inspection Frequency: Annual  
Accepted Waste: Not reported  
Closure Date: 12/31/1984  
Closure Type: Estimated  
Disposal Acreage: \$0.00  
SWIS Num: 19-AA-0021  
Waste Discharge Requirement Num: Not reported  
Program Type: Not reported  
Permitted Throughput with Units: Not reported  
Actual Throughput with Units: Not reported  
Permitted Capacity with Units: Not reported  
Remaining Capacity: Not reported  
Remaining Capacity with Units: Not reported  
Lat/Long: 34.11083 / -118.00444

**Actual:  
287 ft.**

LDS:

Global Id: T10000005071  
Latitude: 34.11049  
Longitude: -118.0029  
Case Type: Land Disposal Site  
Status: Completed - Case Closed  
Status Date: 05/27/2016  
Lead Agency: LOS ANGELES RWQCB (REGION 4)

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SIMPSON GRADING - PASADENA (Continued)**

**U003057077**

Caseworker: WY  
 Local Agency: Not reported  
 RB Case Number: 73-072  
 LOC Case Number: Not reported  
 File Location: Regional Board  
 Potential Media Affect: Not reported  
 EDR Link ID: T10000005071  
 Potential Contaminants of Concern: Not reported  
 Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

**I29**  
**East**  
**1/4-1/2**  
**0.302 mi.**  
**1595 ft.**

**SAN MARINO CITY DUMP**  
**212 E LIVE OAK AVE**  
**IRWINDALE, CA**

**SWF/LF** **U003057026**  
**N/A**

**Site 1 of 2 in cluster I**

**Relative:**  
**Higher**

SWF/LF (SWIS):

**Actual:**  
**353 ft.**

Region: STATE  
 Facility ID: 19-AA-0027  
 Lat/Long: 34.10972 / -118  
 Owner Name: Bubalo Constructions  
 Owner Telephone: 8185747570  
 Owner Address: Not reported  
 Owner Address2: Po Box 1048  
 Owner City,St,Zip: Monrovia, CA 91017  
 Operational Status: Closed  
 Operator: City Of San Marino  
 Operator Phone: Not reported  
 Operator Address: Not reported  
 Operator Address2: Not reported  
 Operator City,St,Zip: Not reported  
 Permit Date: Not reported  
 Permit Status: Not reported  
 Permitted Acreage: \$0.00  
 Activity: Solid Waste Disposal Site  
 Regulation Status: Permitted  
 Landuse Name: Residential,Industrial,Commercial  
 GIS Source: Map  
 Category: Disposal  
 Unit Number: 01  
 Inspection Frequency: Annual  
 Accepted Waste: Not reported  
 Closure Date: 12/31/1989  
 Closure Type: Estimated  
 Disposal Acreage: \$0.00  
 SWIS Num: 19-AA-0027  
 Waste Discharge Requirement Num: UC  
 Program Type: Not reported  
 Permitted Throughput with Units: Not reported  
 Actual Throughput with Units: Not reported  
 Permitted Capacity with Units: Not reported  
 Remaining Capacity: Not reported  
 Remaining Capacity with Units: Not reported  
 Lat/Long: 34.10972 / -118

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**I30**  
**East**  
**1/4-1/2**  
**0.302 mi.**  
**1595 ft.**

**IRWINDALE DISP SITE**  
**212 LIVE OAK AVE.**  
**IRWINDALE ,CA, CA 91706**

**WMUDS/SWAT**    **S103441752**  
**N/A**

**Site 2 of 2 in cluster I**

**Relative:**  
**Higher**

WMUDS/SWAT:

Edit Date: Not reported

Complexity: Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.

**Actual:**  
**353 ft.**

Primary Waste: SLDWST

Primary Waste Type: Inert/Influent or Solid Wastes that do not contain soluble pollutants or organic wastes and have little adverse impact on water quality. Such wastes could cause turbidity and siltation. Uncontaminated soils, rubble and concrete are examples of this category.

Secondary Waste: Not reported

Secondary Waste Type: Not reported

Base Meridian: SB

NPID: Not reported

Tonnage: 0

Regional Board ID: 61-66

Municipal Solid Waste: False

Superorder: False

Open To Public: False

Waste List: True

Agency Type: City

Agency Name: 01 S. L. S. & N. INC.

Agency Department: STREET SUPERINTENDENT

Agency Address: 128 E. LIVE OAK AVE.

Agency City,St,Zip: MONROVIA ,CA 91016

Agency Contact: STEPHAN BUBALO

Agency Telephone: 8185747570

Land Owner Name: CITY OF SAN MARINO

Land Owner Address: 2200 HUNTINGTON DR.

Land Owner City,St,Zip: SAN MARINO, CA 91108

Land Owner Contact: Not reported

Land Owner Phone: 2132821155

Region: 4

Facility Type: Solid Waste Site-Class III - Landfills for non hazardous solid wastes.

Facility Description: Not reported

Facility Telephone: 8185747570

SWAT Facility Name: SAN MARINO DISPOSAL SITE

Primary SIC: 9511

Secondary SIC: Not reported

Comments: Not reported

Last Facility Editors: Not reported

Waste Discharge System: True

Solid Waste Assessment Test Program: True

Toxic Pits Cleanup Act Program: False

Resource Conservation Recovery Act: False

Department of Defence: False

Solid Waste Assessment Test Program: CITY OF SAN MARINO

Threat to Water Quality: Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Awsthetic impairment would include nuisance

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**IRWINDALE DISP SITE (Continued)**

**S103441752**

Sub Chapter 15: from a waste treatment facility.  
 Regional Board Project Officer: True  
 Number of WMUDS at Facility: RHN  
 Section Range: 1  
 RCRA Facility: 15X11W  
 Waste Discharge Requirements: No  
 Self-Monitoring Rept. Frequency: H  
 Waste Discharge System ID: Quarterly Submittal  
 Solid Waste Information ID: 4B190337001  
 19-AA-0027

**J31**  
**ENE**  
**1/4-1/2**  
**0.336 mi.**  
**1772 ft.**

**CITY OF SOLVANG MUNICIPAL**  
**160 LONGDEN**  
**IRWINDALE, CA**

**HIST CORTESE** **U001568782**  
**N/A**

**Site 1 of 3 in cluster J**

**Relative:**  
**Higher**

**HIST CORTESE:**  
 Region: CORTESE  
 Facility County Code: 19  
 Reg By: LTNKA  
 Reg Id: I-01038

**Actual:**  
**367 ft.**

Region: CORTESE  
 Facility County Code: 19  
 Reg By: LTNKA  
 Reg Id: 3139

**J32**  
**ENE**  
**1/4-1/2**  
**0.336 mi.**  
**1772 ft.**

**LA CO DPW FMD LONGDEN YARD**  
**160 E LONGDEN AVE**  
**IRWINDALE, CA 91706**

**LUST** **S103633621**  
**N/A**

**Site 2 of 3 in cluster J**

**Relative:**  
**Higher**

**LUST:**  
 Region: STATE  
 Global Id: T0603702749  
 Latitude: 34.1129968  
 Longitude: -118.0014532  
 Case Type: LUST Cleanup Site  
 Status: Completed - Case Closed  
 Status Date: 06/19/2012  
 Lead Agency: LOS ANGELES COUNTY  
 Case Worker: RL  
 Local Agency: LOS ANGELES COUNTY  
 RB Case Number: I-01038  
 LOC Case Number: 000989-001038  
 File Location: Not reported  
 Potential Media Affect: Soil  
 Potential Contaminants of Concern: Gasoline  
 Site History: Not reported

**Actual:**  
**367 ft.**

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id: T0603702749  
 Contact Type: Local Agency Caseworker



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

LA CO DPW FMD LONGDEN YARD (Continued)

S103633621

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: T0603702749  
Contact Type: Regional Board Caseworker  
Contact Name: YUE RONG  
Organization Name: LOS ANGELES RWQCB (REGION 4)  
Address: 320 W. 4TH ST., SUITE 200  
City: Los Angeles  
Email: yrong@waterboards.ca.gov  
Phone Number: Not reported

Status History:

Global Id: T0603702749  
Status: Completed - Case Closed  
Status Date: 06/09/1992

Global Id: T0603702749  
Status: Completed - Case Closed  
Status Date: 06/19/2012

Global Id: T0603702749  
Status: Open - Case Begin Date  
Status Date: 04/20/1989

Global Id: T0603702749  
Status: Open - Reopen Case  
Status Date: 03/21/2001

Global Id: T0603702749  
Status: Open - Site Assessment  
Status Date: 07/13/2009

Regulatory Activities:

Global Id: T0603702749  
Action Type: Other  
Date: 04/20/1989  
Action: Leak Discovery

Global Id: T0603702749  
Action Type: Other  
Date: 04/26/1989  
Action: Leak Stopped

Global Id: T0603702749  
Action Type: Other  
Date: 06/09/1992  
Action: Leak Reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**J33**  
**ENE**  
**1/4-1/2**  
**0.336 mi.**  
**1772 ft.**

**LONGDEN YARD**  
**160 LONGDEN AVE E**  
**IRWINDALE, CA 91706**  
**Site 3 of 3 in cluster J**

**LUST** **S105034540**  
**N/A**

**Relative:**  
**Higher**

LUST REG 4:

**Actual:**  
**367 ft.**

Region: 4  
 Regional Board: 04  
 County: Los Angeles  
 Facility Id: I-01038  
 Status: Case Closed  
 Substance: Gasoline  
 Substance Quantity: Not reported  
 Local Case No: Not reported  
 Case Type: Soil  
 Abatement Method Used at the Site: Not reported  
 Global ID: T0603702749  
 W Global ID: Not reported  
 Staff: UNK  
 Local Agency: 19000  
 Cross Street: MYRTLE AVE.  
 Enforcement Type: Not reported  
 Date Leak Discovered: 4/20/1989  
 Date Leak First Reported: 6/9/1992  
 Date Leak Record Entered: 5/27/1992  
 Date Confirmation Began: Not reported  
 Date Leak Stopped: 4/26/1989  
 Date Case Last Changed on Database: 6/11/1992  
 Date the Case was Closed: 6/9/1992  
 How Leak Discovered: Tank Closure  
 How Leak Stopped: Not reported  
 Cause of Leak: UNK  
 Leak Source: UNK  
 Operator: DZUBNAR, RUDY  
 Water System: Not reported  
 Well Name: Not reported  
 Approx. Dist To Production Well (ft): 1407.6155711801974659507601567  
 Source of Cleanup Funding: UNK  
 Preliminary Site Assessment Workplan Submitted: Not reported  
 Preliminary Site Assessment Began: Not reported  
 Pollution Characterization Began: Not reported  
 Remediation Plan Submitted: Not reported  
 Remedial Action Underway: Not reported  
 Post Remedial Action Monitoring Began: Not reported  
 Enforcement Action Date: Not reported  
 Historical Max MTBE Date: Not reported  
 Hist Max MTBE Conc in Groundwater: Not reported  
 Hist Max MTBE Conc in Soil: 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: BLANK RP  
 RP Address: 160 E. LONGDEN AVE., IRWINDALE, 91706  
 Program: LUST  
 Lat/Long: 34.1129968 / -1  
 Local Agency Staff: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LONGDEN YARD (Continued)**

**S105034540**

Beneficial Use: Not reported  
Priority: Not reported  
Cleanup Fund Id: Not reported  
Suspended: Not reported  
Assigned Name: Not reported  
Summary: Not reported

**34**  
**WSW**  
**1/4-1/2**  
**0.360 mi.**  
**1902 ft.**

**ARCO GAS**  
**4126 LIVE OAK AVE E**  
**ARCADIA, CA 91006**

**LUST** **S101307313**  
**HIST CORTESE** **N/A**

**Relative:**  
**Lower**

**LUST:**

**Actual:**  
**346 ft.**

Region: STATE  
Global Id: T0603705512  
Latitude: 34.109706  
Longitude: -118.0140847  
Case Type: LUST Cleanup Site  
Status: Completed - Case Closed  
Status Date: 02/03/1998  
Lead Agency: LOS ANGELES COUNTY  
Case Worker: JOA  
Local Agency: LOS ANGELES COUNTY  
RB Case Number: R-25496  
LOC Case Number: Not reported  
File Location: Not reported  
Potential Media Affect: Soil  
Potential Contaminants of Concern: Gasoline  
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

**Contact:**

Global Id: T0603705512  
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: T0603705512  
Contact Type: Regional Board Caseworker  
Contact Name: YUE RONG  
Organization Name: LOS ANGELES RWQCB (REGION 4)  
Address: 320 W. 4TH ST., SUITE 200  
City: Los Angeles  
Email: yrong@waterboards.ca.gov  
Phone Number: Not reported

**Status History:**

Global Id: T0603705512  
Status: Completed - Case Closed  
Status Date: 02/03/1998

Global Id: T0603705512

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARCO GAS (Continued)**

**S101307313**

Status: Open - Case Begin Date  
Status Date: 09/23/1992  
  
Global Id: T0603705512  
Status: Open - Site Assessment  
Status Date: 09/23/1993

Regulatory Activities:

Global Id: T0603705512  
Action Type: Other  
Date: 09/23/1992  
Action: Leak Discovery

Global Id: T0603705512  
Action Type: Other  
Date: 01/12/1998  
Action: Leak Stopped

Global Id: T0603705512  
Action Type: Other  
Date: 10/23/1992  
Action: Leak Reported

LUST REG 4:

Region: 4  
Regional Board: 04  
County: Los Angeles  
Facility Id: R-25496  
Status: Case Closed  
Substance: Gasoline  
Substance Quantity: Not reported  
Local Case No: Not reported  
Case Type: Soil  
Abatement Method Used at the Site: Excavate and Dispose  
Global ID: T0603705512  
W Global ID: Not reported  
Staff: UNK  
Local Agency: 19000  
Cross Street: 9TH AVE  
Enforcement Type: Not reported  
Date Leak Discovered: 9/23/1992  
Date Leak First Reported: 10/23/1992  
Date Leak Record Entered: 2/18/1993  
Date Confirmation Began: 9/23/1993  
Date Leak Stopped: 1/12/1998  
Date Case Last Changed on Database: 2/3/1998  
Date the Case was Closed: 2/3/1998  
How Leak Discovered: OM  
How Leak Stopped: Not reported  
Cause of Leak: UNK  
Leak Source: UNK  
Operator: PATRICIA MCDOWELL  
Water System: Not reported  
Well Name: Not reported  
Approx. Dist To Production Well (ft): 1220.5589591648070085290692811

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARCO GAS (Continued)**

**S101307313**

Source of Cleanup Funding: UNK  
Preliminary Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: Not reported  
Pollution Characterization Began: Not reported  
Remediation Plan Submitted: Not reported  
Remedial Action Underway: Not reported  
Post Remedial Action Monitoring Began: Not reported  
Enforcement Action Date: Not reported  
Historical Max MTBE Date: Not reported  
Hist Max MTBE Conc in Groundwater: Not reported  
Hist Max MTBE Conc in Soil: 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: R & M PETROLEUM  
RP Address: 641 GLORIA ROAD, ARCADIA, CA 91006  
Program: LUST  
Lat/Long: 34.109706 / -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: 02/02/98 NEW LEAK REPORT

**HIST CORTESE:**

Region: CORTESE  
Facility County Code: 19  
Reg By: LTNKA  
Reg Id: R-25496

**K35**      **LANDMARK MATERIALS**  
**East**      **242 LIVE OAK**  
**1/4-1/2**      **IRWINDALE, CA 91706**  
**0.382 mi.**  
**2015 ft.**      **Site 1 of 2 in cluster K**

**SLIC**      **S101540194**  
                 **N/A**

**Relative:**      SLIC REG 4:  
**Higher**      Region: 4  
                 Facility Status: Not reported  
**Actual:**      SLIC: 0415  
**359 ft.**      Substance: TPH  
                 Staff: Landfill



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**K36**  
**East**  
**1/4-1/2**  
**0.394 mi.**  
**2080 ft.**

**RECYCLING CENTER**  
**242 E. LIVE OAKS AVE.**  
**IRWINDALE CA, CA 91706**

**WMUDS/SWAT**    **S104156407**  
**N/A**

**Site 2 of 2 in cluster K**

**Relative:**  
**Higher**

WMUDS/SWAT:

Edit Date: Not reported

Complexity: Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.

**Actual:**  
**359 ft.**

Primary Waste: CNSOIL

Primary Waste Type: Hazardous/Influent or Solid Wastes that contain toxic, corrosive, ignitable or reactive substances and must be managed according to applicable DOHS standards.

Secondary Waste: Not reported

Secondary Waste Type: Not reported

Base Meridian: Not reported

NPID: Not reported

Tonnage: 0

Regional Board ID: Not reported

Municipal Solid Waste: False

Superorder: False

Open To Public: False

Waste List: False

Agency Type: Private

Agency Name: LANDMARK MATERIALS

Agency Department: Not reported

Agency Address: P.O.BOX 2284

Agency City,St,Zip: IRWINDALE CA 91706

Agency Contact: DICK PENN

Agency Telephone: 6268215363

Land Owner Name: Not reported

Land Owner Address: Not reported

Land Owner City,St,Zip: Not reported

Land Owner Contact: Not reported

Land Owner Phone: Not reported

Region: 4

Facility Type: Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)

Facility Description: Not reported

Facility Telephone: 8188215363

SWAT Facility Name: Not reported

Primary SIC: 2951

Secondary SIC: Not reported

Comments: Not reported

Last Facility Editors: Not reported

Waste Discharge System: True

Solid Waste Assessment Test Program: False

Toxic Pits Cleanup Act Program: False

Resource Conservation Recovery Act: False

Department of Defence: False

Solid Waste Assessment Test Program: Not reported

Threat to Water Quality: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**RECYCLING CENTER (Continued)**

**S104156407**

Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

Sub Chapter 15: True  
 Regional Board Project Officer: Not reported  
 Number of WMUDS at Facility: 1  
 Section Range: Not reported  
 RCRA Facility: No  
 Waste Discharge Requirements: A  
 Self-Monitoring Rept. Frequency: Quarterly Submittal  
 Waste Discharge System ID: 4B190368001  
 Solid Waste Information ID: Not reported

**37**  
**ENE**  
**1/4-1/2**  
**0.412 mi.**  
**2178 ft.**

**LONGDEN AVE DISPOSAL SITE**  
**201-545 LONGDEN AVENUE**  
**IRWINDALE, CA**

**SWF/LF S111075987**  
**N/A**

**Relative:**  
**Lower**

SWF/LF (SWIS):  
 Region: STATE  
 Facility ID: 19-AA-0587  
 Lat/Long: 34.1 / -118.09444  
 Owner Name: Five Long Oak Corp  
 Owner Telephone: 2133834222  
 Owner Address: Not reported  
 Owner Address2: 3500 Wilshire Blvd  
 Owner City,St,Zip: Los Angeles, CA 90010  
 Operational Status: Closed  
 Operator: Owl Park Corporation  
 Operator Phone: Not reported  
 Operator Address: Not reported  
 Operator Address2: 106 South Myrtle Ave  
 Operator City,St,Zip: Monrovia, CA  
 Permit Date: Not reported  
 Permit Status: Not reported  
 Permitted Acreage: \$0.00  
 Activity: Solid Waste Disposal Site  
 Regulation Status: Unpermitted  
 Landuse Name: Residential,Commercial  
 GIS Source: Map  
 Category: Disposal  
 Unit Number: 01  
 Inspection Frequency: Quarterly  
 Accepted Waste: Not reported  
 Closure Date: 12/31/1978  
 Closure Type: Estimated  
 Disposal Acreage: \$0.00  
 SWIS Num: 19-AA-0587  
 Waste Discharge Requirement Num: Not reported  
 Program Type: Not reported  
 Permitted Throughput with Units: 0  
 Actual Throughput with Units: Not reported  
 Permitted Capacity with Units: 0  
 Remaining Capacity: 0  
 Remaining Capacity with Units: Not reported  
 Lat/Long: 34.1 / -118.09444

**Actual:**  
**328 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LONGDEN AVE DISPOSAL SITE (Continued)**

**S111075987**

LOS ANGELES CO. LF:

Site ID: 1981  
Alt. Address: 207-277 Longden Avenue, Irwindale, CA  
Site Contact: Not reported  
Site Contact Phone: Not reported  
Site Email: Not reported  
Site Website: Not reported  
Site Type: Unknown  
Site SWIS Number: 19-AA-0587  
Beginning Operation Date: 1929  
Ending Operation Date: Dec-78  
Local Enforcement Agency: County Public Health  
Maximun Depth Fill(Ft): 130  
Permitted Capacity: Not reported  
Present Use: Commercial; Vacant  
Remaining Capacity(Million): Not reported  
Status: Closed  
Waste Accepted: Commercial; Inert; Residential  
Hours of Operation: Not reported  
Disposal Area (Acre): 5.4

Detail As Of 01/2014:

Operator Name: Multiple Operators (See Notes)  
Operator Address: Not reported  
Operator City/State/Zip: Not reported  
Operator Contact: Not reported  
Operator Telephone: Not reported  
Operator Email: Not reported  
Owner Name: Multiple Owners (See Notes)  
Owner Address: Not reported  
Owner City/State/Zip: Not reported  
Owner Contact: Not reported  
Owner Telephone: Not reported  
Owner Email: Not reported

38  
East  
1/2-1  
0.534 mi.  
2820 ft.

**WESTERN EMULSION CO.  
284 LIVE OAK  
IRWINDALE, CA 91706**

**Notify 65 S100178032  
N/A**

**Relative:  
Higher**

NOTIFY 65:

Date Reported: Not reported  
Staff Initials: Not reported  
Board File Number: Not reported  
Facility Type: Not reported  
Discharge Date: Not reported  
Issue Date: Not reported  
Incident Description: Not reported

**Actual:  
364 ft.**

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**39**  
**SSE**  
**1/2-1**  
**0.787 mi.**  
**4156 ft.**

**KARDASHIAN AND MAX GOLDRING**  
**INTERSECTION OF KARDASHIAN AND CLARK STS**  
**ARCADIA, CA 91006**

**ENVIROSTOR**    **S100714327**  
**N/A**

**Relative:**  
**Lower**

ENVIROSTOR:

Facility ID: 19320194  
 Status: Refer: Other Agency  
 Status Date: 08/31/1995  
 Site Code: Not reported  
 Site Type: Historical  
 Site Type Detailed: \* Historical  
 Acres: Not reported  
 NPL: NO  
 Regulatory Agencies: NONE SPECIFIED  
 Lead Agency: NONE SPECIFIED  
 Program Manager: Not reported  
 Supervisor: \* Mmonroy  
 Division Branch: Cleanup Chatsworth  
 Assembly: 49  
 Senate: 22  
 Special Program: Not reported  
 Restricted Use: NO  
 Site Mgmt Req: NONE SPECIFIED  
 Funding: Not reported  
 Latitude: 34.1  
 Longitude: -118.005  
 APN: NONE SPECIFIED  
 Past Use: NONE SPECIFIED  
 Potential COC: NONE SPECIFIED  
 Confirmed COC: NONE SPECIFIED  
 Potential Description: NONE SPECIFIED  
 Alias Name: CAD982505067  
 Alias Type: EPA Identification Number  
 Alias Name: 19320194  
 Alias Type: Envirostor ID Number

**Actual:**  
**341 ft.**

Completed Info:

Completed Area Name: PROJECT WIDE  
 Completed Sub Area Name: Not reported  
 Completed Document Type: \* Discovery  
 Completed Date: 08/16/1990  
 Comments: FACILITY IDENTIFIED IDENTIFIED VIA FIT PA REPORT.

Completed Area Name: PROJECT WIDE  
 Completed Sub Area Name: Not reported  
 Completed Document Type: Site Screening  
 Completed Date: 12/08/1994  
 Comments: CalSites Validation Program confirms NFA for DTSC.

Completed Area Name: PROJECT WIDE  
 Completed Sub Area Name: Not reported  
 Completed Document Type: Site Screening  
 Completed Date: 07/01/1991  
 Comments: There was a swine farm and associated garbage pit located at the site during the 1940s to 1960's. Also Kardashians operated a refuse hauling business in California. It is suspected to be a potential waste problem at the site. No sampling was conducted at the site. Because of the above a low priority PEA is required at the site to

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KARDASHIAN AND MAX GOLDRING (Continued)**

**S100714327**

identify any contamination at the site.

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

**40  
East  
1/2-1  
0.915 mi.  
4829 ft.**

**SUPERIOR FAST FREIGHT  
600 EAST LIVE OAK AVENUE  
IRWINDALE, CA 91706**

**ENVIROSTOR  
LOS ANGELES CO. HMS  
NPDES**

**S103978949  
N/A**

**Relative:  
Lower**

**ENVIROSTOR:**

**Actual:  
346 ft.**

Facility ID: 19490215  
Status: Refer: RWQCB  
Status Date: 06/05/1996  
Site Code: Not reported  
Site Type: Historical  
Site Type Detailed: \* Historical  
Acres: Not reported  
NPL: NO  
Regulatory Agencies: NONE SPECIFIED  
Lead Agency: NONE SPECIFIED  
Program Manager: Not reported  
Supervisor: Sayareh Amirebrahimi  
Division Branch: Cleanup Chatsworth  
Assembly: 48  
Senate: 22  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 34.11128  
Longitude: -117.9918  
APN: 8532004023  
Past Use: NONE SPECIFIED  
Potential COC: Asbestos Containing Materials (ACM)  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: NU WAY LANDFILL - 1969/1986  
Alias Type: Alternate Name  
Alias Name: PACIFIC ROCK AND GRAVEL COMPANY (FORMER)  
Alias Type: Alternate Name  
Alias Name: SUPERIOR FAST FREIGHT (1986 - PRESENT)  
Alias Type: Alternate Name  
Alias Name: 8532004023  
Alias Type: APN  
Alias Name: 19490215  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: PROJECT WIDE



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUPERIOR FAST FREIGHT (Continued)**

**S103978949**

Completed Sub Area Name: Not reported  
Completed Document Type: \* Discovery  
Completed Date: 07/30/1991  
Comments: Facility identified from RP notification.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Endangerment Assessment Report  
Completed Date: 03/10/1992  
Comments: The Dept completed the review of PEA on October 9, 1991 and requested additional information within 30 days of the correspondence. The Dept did not receive any reply until March 10, 1992. The Dept notified the RP that the PEA was considered to be completed and recommended further action.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Screening  
Completed Date: 08/01/1991  
Comments: The 22-acre site was formerly a part of Nu-way Inert Landfill, which originally covered 86 acres, EPA id #CAD099990947. The site was not permitted to receive haz wastes, but it accepted auto shredder wastes and asbestos. Three 20,000 gallon USTs on the site to store gasoline and diesel fuel. Recent trenching operation discovered buried asbestos on-site. The trenching operation probably disturbed the asbestos and is a potential for release to soil, water, and air. A medium priority PEA recommended because of potential release of asbestos. Also, the nearby 890 E. and 400 E Live Oak Ave sites were contaminated with asbestos and metals.

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

**LOS ANGELES CO. HMS:**

Region: LA  
Permit Category: Not reported  
Facility Id: 014917-054836  
Facility Type: Not reported  
Facility Status: OPEN  
Area: 3S  
Permit Number: Not reported  
Permit Status: Not reported

**NPDES:**

Npdes Number: Not reported  
Facility Status: Not reported  
Agency Id: Not reported  
Region: 4  
Regulatory Measure Id: 191634

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUPERIOR FAST FREIGHT (Continued)**

**S103978949**

Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	4 19I018479
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	5/9/2008
PROCESSED DATE:	11/24/2003
STATUS CODE NAME:	Active
STATUS DATE:	11/24/2003
PLACE SIZE:	20
PLACE SIZE UNIT:	52
FACILITY CONTACT NAME:	TONY Rambaud
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	6263594500
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	USF Distribution Services Inc
OPERATOR ADDRESS:	600 Live Oak Ave
OPERATOR CITY:	Baldwin Park
OPERATOR STATE:	California
OPERATOR ZIP:	91706
OPERATOR CONTACT NAME:	TONY Rambaud
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	626-359-4500
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	626-359-4500
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERCIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESCRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUPERIOR FAST FREIGHT (Continued)**

**S103978949**

CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	San Gabriel River
CERTIFIER NAME:	Tony Rambaud
CERTIFIER TITLE:	Service Center Manager
CERTIFICATION DATE:	21-OCT-03
PRIMARY SIC:	4213-Trucking, Except Local
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	CAS000001
Facility Status:	Active
Agency Id:	0
Region:	4
Regulatory Measure Id:	191634
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 191018479
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	11/24/2003
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Neovia Logistics
Discharge Address:	600 Live Oak Ave
Discharge City:	Baldwin Park
Discharge State:	California
Discharge Zip:	91706
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUPERIOR FAST FREIGHT (Continued)**

**S103978949**

DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

Count: 4 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
IRWINDALE	1007443875	LONGDEN AVE, CLOSED LANDFILL	LONGDEN STREET		ODI
MONROVIA	1007443877	EL MONTE PIT	LIND AND MAYFLOWER		ODI
MONROVIA	S106843191	VALLEY PARK CORP DUMP	4414 E LIVE OAK AVE.		SWF/LF
MONROVIA	S118939173	WEST VALLEY BASE - SECURITY PAVING	128 EAST LIVE OAK AVENUE	91016	SWF/LF



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal NPL site list***

#### NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 08/05/2016	Source: EPA
Date Data Arrived at EDR: 10/05/2016	Telephone: N/A
Date Made Active in Reports: 01/06/2017	Last EDR Contact: 01/05/2017
Number of Days to Update: 93	Next Scheduled EDR Contact: 04/17/2017
	Data Release Frequency: Quarterly

#### NPL Site Boundaries

##### Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 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: 08/05/2016	Source: EPA
Date Data Arrived at EDR: 10/05/2016	Telephone: N/A
Date Made Active in Reports: 01/06/2017	Last EDR Contact: 01/05/2017
Number of Days to Update: 93	Next Scheduled EDR Contact: 04/17/2017
	Data Release Frequency: Quarterly

#### NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal Delisted NPL site list***

### Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 08/05/2016	Source: EPA
Date Data Arrived at EDR: 10/05/2016	Telephone: N/A
Date Made Active in Reports: 01/06/2017	Last EDR Contact: 01/05/2017
Number of Days to Update: 93	Next Scheduled EDR Contact: 04/17/2017
	Data Release Frequency: Quarterly

## ***Federal CERCLIS list***

### FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 09/14/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/04/2016	Telephone: 703-603-8704
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 01/05/2017
Number of Days to Update: 17	Next Scheduled EDR Contact: 04/17/2017
	Data Release Frequency: Varies

### SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/10/2016	Source: EPA
Date Data Arrived at EDR: 10/20/2016	Telephone: 800-424-9346
Date Made Active in Reports: 01/06/2017	Last EDR Contact: 01/06/2017
Number of Days to Update: 78	Next Scheduled EDR Contact: 04/17/2017
	Data Release Frequency: Quarterly

## ***Federal CERCLIS NFRAP site list***

### SEMS-ARCHIVE: Superfund Enterprise Management System Archive

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 10/10/2016	Source: EPA
Date Data Arrived at EDR: 10/20/2016	Telephone: 800-424-9346
Date Made Active in Reports: 01/06/2017	Last EDR Contact: 01/06/2017
Number of Days to Update: 78	Next Scheduled EDR Contact: 04/17/2017
	Data Release Frequency: Quarterly

## ***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/12/2016	Source: EPA
Date Data Arrived at EDR: 09/28/2016	Telephone: 800-424-9346
Date Made Active in Reports: 01/06/2017	Last EDR Contact: 12/28/2016
Number of Days to Update: 100	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Quarterly

## ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 09/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/28/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 01/06/2017	Last EDR Contact: 12/28/2016
Number of Days to Update: 100	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Quarterly

## ***Federal RCRA generators list***

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/28/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 01/06/2017	Last EDR Contact: 12/28/2016
Number of Days to Update: 100	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 09/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/28/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 01/06/2017	Last EDR Contact: 12/28/2016
Number of Days to Update: 100	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Quarterly

## RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/28/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 01/06/2017	Last EDR Contact: 12/28/2016
Number of Days to Update: 100	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Varies

## ***Federal institutional controls / engineering controls registries***

### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015	Source: Department of the Navy
Date Data Arrived at EDR: 05/29/2015	Telephone: 843-820-7326
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 11/18/2016
Number of Days to Update: 13	Next Scheduled EDR Contact: 02/27/2017
	Data Release Frequency: Varies

### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/09/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/01/2016	Telephone: 703-603-0695
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 11/29/2016
Number of Days to Update: 93	Next Scheduled EDR Contact: 03/13/2017
	Data Release Frequency: Varies

### US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/09/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/01/2016	Telephone: 703-603-0695
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 11/29/2016
Number of Days to Update: 93	Next Scheduled EDR Contact: 03/13/2017
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **Federal ERNS list**

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/26/2016  
Date Data Arrived at EDR: 09/29/2016  
Date Made Active in Reports: 11/11/2016  
Number of Days to Update: 43

Source: National Response Center, United States Coast Guard  
Telephone: 202-267-2180  
Last EDR Contact: 12/28/2016  
Next Scheduled EDR Contact: 04/10/2017  
Data Release Frequency: Annually

## **State- and tribal - equivalent NPL**

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/01/2016  
Date Data Arrived at EDR: 08/02/2016  
Date Made Active in Reports: 10/05/2016  
Number of Days to Update: 64

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 11/01/2016  
Next Scheduled EDR Contact: 02/13/2017  
Data Release Frequency: Quarterly

## **State- and tribal - equivalent CERCLIS**

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/01/2016  
Date Data Arrived at EDR: 08/02/2016  
Date Made Active in Reports: 10/05/2016  
Number of Days to Update: 64

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 11/01/2016  
Next Scheduled EDR Contact: 02/13/2017  
Data Release Frequency: Quarterly

## **State and tribal landfill and/or solid waste disposal site lists**

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 08/15/2016  
Date Data Arrived at EDR: 08/16/2016  
Date Made Active in Reports: 10/05/2016  
Number of Days to Update: 50

Source: Department of Resources Recycling and Recovery  
Telephone: 916-341-6320  
Last EDR Contact: 11/15/2016  
Next Scheduled EDR Contact: 02/27/2017  
Data Release Frequency: Quarterly

## **State and tribal leaking storage tank lists**



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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	Source: California Regional Water Quality Control Board Lahontan Region (6)
Date Data Arrived at EDR: 09/10/2003	Telephone: 530-542-5572
Date Made Active in Reports: 10/07/2003	Last EDR Contact: 09/12/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: No Update Planned

## LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank (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: 11/01/2016	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/01/2016	Telephone: see region list
Date Made Active in Reports: 12/15/2016	Last EDR Contact: 12/14/2016
Number of Days to Update: 44	Next Scheduled EDR Contact: 03/27/2017
	Data Release Frequency: Quarterly

## LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001	Source: California Regional Water Quality Control Board San Diego Region (9)
Date Data Arrived at EDR: 04/23/2001	Telephone: 858-637-5595
Date Made Active in Reports: 05/21/2001	Last EDR Contact: 09/26/2011
Number of Days to Update: 28	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	Source: California Regional Water Quality Control Board Santa Ana Region (8)
Date Data Arrived at EDR: 02/15/2005	Telephone: 909-782-4496
Date Made Active in Reports: 03/28/2005	Last EDR Contact: 08/15/2011
Number of Days to Update: 41	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: Varies

## 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	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-776-8943
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 08/01/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: No Update Planned

## LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005	Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Date Data Arrived at EDR: 06/07/2005	Telephone: 760-241-7365
Date Made Active in Reports: 06/29/2005	Last EDR Contact: 09/12/2011
Number of Days to Update: 22	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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/01/2008  
Date Data Arrived at EDR: 07/22/2008  
Date Made Active in Reports: 07/31/2008  
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)  
Telephone: 916-464-4834  
Last EDR Contact: 07/01/2011  
Next Scheduled EDR Contact: 10/17/2011  
Data Release Frequency: No Update Planned

## LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004  
Date Data Arrived at EDR: 09/07/2004  
Date Made Active in Reports: 10/12/2004  
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)  
Telephone: 213-576-6710  
Last EDR Contact: 09/06/2011  
Next Scheduled EDR Contact: 12/19/2011  
Data Release Frequency: No Update Planned

## LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003  
Date Data Arrived at EDR: 05/19/2003  
Date Made Active in Reports: 06/02/2003  
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)  
Telephone: 805-542-4786  
Last EDR Contact: 07/18/2011  
Next Scheduled EDR Contact: 10/31/2011  
Data Release Frequency: No Update Planned

## LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004  
Date Data Arrived at EDR: 10/20/2004  
Date Made Active in Reports: 11/19/2004  
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)  
Telephone: 510-622-2433  
Last EDR Contact: 09/19/2011  
Next Scheduled EDR Contact: 01/02/2012  
Data Release Frequency: Quarterly

## LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001  
Date Data Arrived at EDR: 02/28/2001  
Date Made Active in Reports: 03/29/2001  
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)  
Telephone: 707-570-3769  
Last EDR Contact: 08/01/2011  
Next Scheduled EDR Contact: 11/14/2011  
Data Release Frequency: No Update Planned

## INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/09/2015  
Date Data Arrived at EDR: 02/12/2016  
Date Made Active in Reports: 06/03/2016  
Number of Days to Update: 112

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 10/28/2016  
Next Scheduled EDR Contact: 02/06/2017  
Data Release Frequency: Varies

## INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/13/2015  
Date Data Arrived at EDR: 10/23/2015  
Date Made Active in Reports: 02/18/2016  
Number of Days to Update: 118

Source: EPA Region 8  
Telephone: 303-312-6271  
Last EDR Contact: 10/28/2016  
Next Scheduled EDR Contact: 02/06/2017  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 02/25/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/27/2016	Telephone: 415-972-3372
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 10/28/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 01/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/08/2016	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 10/28/2016
Number of Days to Update: 41	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land  
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015	Source: EPA Region 1
Date Data Arrived at EDR: 10/29/2015	Telephone: 617-918-1313
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 10/28/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/05/2016	Source: EPA Region 4
Date Data Arrived at EDR: 04/29/2016	Telephone: 404-562-8677
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 10/28/2016
Number of Days to Update: 35	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Semi-Annually

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land  
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 02/17/2016	Source: EPA, Region 5
Date Data Arrived at EDR: 04/27/2016	Telephone: 312-886-7439
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 10/28/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 12/11/2015	Source: EPA Region 6
Date Data Arrived at EDR: 02/19/2016	Telephone: 214-665-6597
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 10/28/2016
Number of Days to Update: 105	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Varies

SLIC: Statewide SLIC Cases

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: 09/12/2016	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/13/2016	Telephone: 866-480-1028
Date Made Active in Reports: 10/14/2016	Last EDR Contact: 12/14/2016
Number of Days to Update: 31	Next Scheduled EDR Contact: 03/27/2017
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004  
Date Data Arrived at EDR: 09/07/2004  
Date Made Active in Reports: 10/12/2004  
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region  
Telephone: 530-542-5574  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: No Update Planned

## SLIC REG 7: SLIC List

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004  
Date Data Arrived at EDR: 11/29/2004  
Date Made Active in Reports: 01/04/2005  
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region  
Telephone: 760-346-7491  
Last EDR Contact: 08/01/2011  
Next Scheduled EDR Contact: 11/14/2011  
Data Release Frequency: No Update Planned

## SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008  
Date Data Arrived at EDR: 04/03/2008  
Date Made Active in Reports: 04/14/2008  
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)  
Telephone: 951-782-3298  
Last EDR Contact: 09/12/2011  
Next Scheduled EDR Contact: 12/26/2011  
Data Release Frequency: Semi-Annually

## SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007  
Date Data Arrived at EDR: 09/11/2007  
Date Made Active in Reports: 09/28/2007  
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)  
Telephone: 858-467-2980  
Last EDR Contact: 08/08/2011  
Next Scheduled EDR Contact: 11/21/2011  
Data Release Frequency: Annually

## **State and tribal registered storage tank lists**

### FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010  
Date Data Arrived at EDR: 02/16/2010  
Date Made Active in Reports: 04/12/2010  
Number of Days to Update: 55

Source: FEMA  
Telephone: 202-646-5797  
Last EDR Contact: 10/11/2016  
Next Scheduled EDR Contact: 01/23/2017  
Data Release Frequency: Varies

### UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/12/2016  
Date Data Arrived at EDR: 09/14/2016  
Date Made Active in Reports: 10/14/2016  
Number of Days to Update: 30

Source: SWRCB  
Telephone: 916-341-5851  
Last EDR Contact: 12/15/2016  
Next Scheduled EDR Contact: 03/27/2017  
Data Release Frequency: Semi-Annually



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 07/12/2016	Telephone: 916-327-5092
Date Made Active in Reports: 09/19/2016	Last EDR Contact: 12/22/2016
Number of Days to Update: 69	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Quarterly

## INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 01/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/08/2016	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 10/28/2016
Number of Days to Update: 41	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Quarterly

## INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 02/25/2016	Source: EPA Region 9
Date Data Arrived at EDR: 04/27/2016	Telephone: 415-972-3368
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 10/28/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Quarterly

## INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 01/26/2016	Source: EPA Region 8
Date Data Arrived at EDR: 02/05/2016	Telephone: 303-312-6137
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 10/28/2016
Number of Days to Update: 119	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Quarterly

## INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014	Source: EPA Region 7
Date Data Arrived at EDR: 11/25/2014	Telephone: 913-551-7003
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 10/28/2016
Number of Days to Update: 65	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Varies

## INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 12/03/2015	Source: EPA Region 6
Date Data Arrived at EDR: 02/04/2016	Telephone: 214-665-7591
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 10/28/2016
Number of Days to Update: 120	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Semi-Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 10/29/2015	Telephone: 617-918-1313
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 10/28/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Varies

## INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 02/05/2016	Source: EPA Region 4
Date Data Arrived at EDR: 04/29/2016	Telephone: 404-562-9424
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 10/28/2016
Number of Days to Update: 35	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Semi-Annually

## INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015	Source: EPA Region 5
Date Data Arrived at EDR: 11/13/2015	Telephone: 312-886-6136
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 10/28/2016
Number of Days to Update: 52	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Varies

## ***State and tribal voluntary cleanup sites***

### INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

### INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 12/27/2016
Number of Days to Update: 142	Next Scheduled EDR Contact: 04/10/2017
	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: 08/01/2016	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/02/2016	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2016	Last EDR Contact: 11/01/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 02/13/2017
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***State and tribal Brownfields sites***

### **BROWNFIELDS: Considered Brownfields Sites Listing**

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 02/29/2016  
Date Data Arrived at EDR: 03/07/2016  
Date Made Active in Reports: 05/04/2016  
Number of Days to Update: 58

Source: State Water Resources Control Board  
Telephone: 916-323-7905  
Last EDR Contact: 01/04/2017  
Next Scheduled EDR Contact: 04/10/2017  
Data Release Frequency: Varies

## **ADDITIONAL ENVIRONMENTAL RECORDS**

### ***Local Brownfield lists***

#### **US BROWNFIELDS: A Listing of Brownfields Sites**

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/20/2016  
Date Data Arrived at EDR: 09/21/2016  
Date Made Active in Reports: 11/11/2016  
Number of Days to Update: 51

Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 12/20/2016  
Next Scheduled EDR Contact: 04/03/2017  
Data Release Frequency: Semi-Annually

### ***Local Lists of Landfill / Solid Waste Disposal Sites***

#### **WMUDS/SWAT: Waste Management Unit Database**

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000  
Date Data Arrived at EDR: 04/10/2000  
Date Made Active in Reports: 05/10/2000  
Number of Days to Update: 30

Source: State Water Resources Control Board  
Telephone: 916-227-4448  
Last EDR Contact: 11/07/2016  
Next Scheduled EDR Contact: 02/20/2017  
Data Release Frequency: No Update Planned

#### **SWRCY: Recycler Database**

A listing of recycling facilities in California.

Date of Government Version: 09/12/2016  
Date Data Arrived at EDR: 09/14/2016  
Date Made Active in Reports: 10/14/2016  
Number of Days to Update: 30

Source: Department of Conservation  
Telephone: 916-323-3836  
Last EDR Contact: 12/14/2016  
Next Scheduled EDR Contact: 03/27/2017  
Data Release Frequency: Quarterly

#### **HAULERS: Registered Waste Tire Haulers Listing**

A listing of registered waste tire haulers.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/25/2016  
Date Data Arrived at EDR: 08/26/2016  
Date Made Active in Reports: 10/14/2016  
Number of Days to Update: 49

Source: Integrated Waste Management Board  
Telephone: 916-341-6422  
Last EDR Contact: 11/11/2016  
Next Scheduled EDR Contact: 02/27/2017  
Data Release Frequency: Varies

## INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998  
Date Data Arrived at EDR: 12/03/2007  
Date Made Active in Reports: 01/24/2008  
Number of Days to Update: 52

Source: Environmental Protection Agency  
Telephone: 703-308-8245  
Last EDR Contact: 10/31/2016  
Next Scheduled EDR Contact: 02/13/2017  
Data Release Frequency: Varies

## ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985  
Date Data Arrived at EDR: 08/09/2004  
Date Made Active in Reports: 09/17/2004  
Number of Days to Update: 39

Source: Environmental Protection Agency  
Telephone: 800-424-9346  
Last EDR Contact: 06/09/2004  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009  
Date Data Arrived at EDR: 05/07/2009  
Date Made Active in Reports: 09/21/2009  
Number of Days to Update: 137

Source: EPA, Region 9  
Telephone: 415-947-4219  
Last EDR Contact: 10/24/2016  
Next Scheduled EDR Contact: 02/06/2017  
Data Release Frequency: No Update Planned

## IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014  
Date Data Arrived at EDR: 08/06/2014  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service  
Telephone: 301-443-1452  
Last EDR Contact: 11/04/2016  
Next Scheduled EDR Contact: 02/13/2017  
Data Release Frequency: Varies

## **Local Lists of Hazardous waste / Contaminated Sites**

### US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 08/31/2016  
Date Data Arrived at EDR: 09/06/2016  
Date Made Active in Reports: 09/23/2016  
Number of Days to Update: 17

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 08/31/2016  
Next Scheduled EDR Contact: 10/10/2016  
Data Release Frequency: No Update Planned

### HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/08/2005  
Date Data Arrived at EDR: 08/03/2006  
Date Made Active in Reports: 08/24/2006  
Number of Days to Update: 21

Source: Department of Toxic Substance Control  
Telephone: 916-323-3400  
Last EDR Contact: 02/23/2009  
Next Scheduled EDR Contact: 05/25/2009  
Data Release Frequency: No Update Planned

## SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/01/2016  
Date Data Arrived at EDR: 08/02/2016  
Date Made Active in Reports: 10/05/2016  
Number of Days to Update: 64

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 11/01/2016  
Next Scheduled EDR Contact: 02/13/2017  
Data Release Frequency: Quarterly

## CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 08/31/2016  
Date Data Arrived at EDR: 11/18/2016  
Date Made Active in Reports: 12/22/2016  
Number of Days to Update: 34

Source: Department of Toxic Substances Control  
Telephone: 916-255-6504  
Last EDR Contact: 11/07/2016  
Next Scheduled EDR Contact: 01/23/2017  
Data Release Frequency: Varies

## TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995  
Date Data Arrived at EDR: 08/30/1995  
Date Made Active in Reports: 09/26/1995  
Number of Days to Update: 27

Source: State Water Resources Control Board  
Telephone: 916-227-4364  
Last EDR Contact: 01/26/2009  
Next Scheduled EDR Contact: 04/27/2009  
Data Release Frequency: No Update Planned

## US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 08/30/2016  
Date Data Arrived at EDR: 09/06/2016  
Date Made Active in Reports: 09/23/2016  
Number of Days to Update: 17

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 11/29/2016  
Next Scheduled EDR Contact: 03/13/2017  
Data Release Frequency: Quarterly

## **Local Lists of Registered Storage Tanks**

### SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/01/1994  
Date Data Arrived at EDR: 07/07/2005  
Date Made Active in Reports: 08/11/2005  
Number of Days to Update: 35

Source: State Water Resources Control Board  
Telephone: N/A  
Last EDR Contact: 06/03/2005  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2016  
Date Data Arrived at EDR: 09/27/2016  
Date Made Active in Reports: 10/20/2016  
Number of Days to Update: 23

Source: Department of Public Health  
Telephone: 707-463-4466  
Last EDR Contact: 11/28/2016  
Next Scheduled EDR Contact: 03/13/2017  
Data Release Frequency: Annually

## HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990  
Date Data Arrived at EDR: 01/25/1991  
Date Made Active in Reports: 02/12/1991  
Number of Days to Update: 18

Source: State Water Resources Control Board  
Telephone: 916-341-5851  
Last EDR Contact: 07/26/2001  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994  
Date Data Arrived at EDR: 09/05/1995  
Date Made Active in Reports: 09/29/1995  
Number of Days to Update: 24

Source: California Environmental Protection Agency  
Telephone: 916-341-5851  
Last EDR Contact: 12/28/1998  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## Local Land Records

### LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/25/2016  
Date Data Arrived at EDR: 09/06/2016  
Date Made Active in Reports: 10/14/2016  
Number of Days to Update: 38

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 12/02/2016  
Next Scheduled EDR Contact: 03/20/2017  
Data Release Frequency: Varies

### LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014  
Date Data Arrived at EDR: 03/18/2014  
Date Made Active in Reports: 04/24/2014  
Number of Days to Update: 37

Source: Environmental Protection Agency  
Telephone: 202-564-6023  
Last EDR Contact: 10/28/2016  
Next Scheduled EDR Contact: 02/06/2017  
Data Release Frequency: Varies

### DEED: Deed Restriction Listing

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 09/06/2016	Source: DTSC and SWRCB
Date Data Arrived at EDR: 09/07/2016	Telephone: 916-323-3400
Date Made Active in Reports: 10/14/2016	Last EDR Contact: 12/06/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 03/20/2017
	Data Release Frequency: Semi-Annually

## **Records of Emergency Release Reports**

### HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/27/2016	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 06/28/2016	Telephone: 202-366-4555
Date Made Active in Reports: 09/23/2016	Last EDR Contact: 12/28/2016
Number of Days to Update: 87	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Annually

### CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 06/03/2016	Source: Office of Emergency Services
Date Data Arrived at EDR: 07/26/2016	Telephone: 916-845-8400
Date Made Active in Reports: 09/23/2016	Last EDR Contact: 10/26/2016
Number of Days to Update: 59	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Varies

### LDS: Land Disposal Sites Listing

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: 09/12/2016	Source: State Water Quality Control Board
Date Data Arrived at EDR: 09/13/2016	Telephone: 866-480-1028
Date Made Active in Reports: 10/14/2016	Last EDR Contact: 12/14/2016
Number of Days to Update: 31	Next Scheduled EDR Contact: 03/27/2017
	Data Release Frequency: Quarterly

### MCS: Military Cleanup Sites Listing

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: 09/12/2016	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/13/2016	Telephone: 866-480-1028
Date Made Active in Reports: 10/14/2016	Last EDR Contact: 12/14/2016
Number of Days to Update: 31	Next Scheduled EDR Contact: 03/27/2017
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/22/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 50	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## Other Ascertainable Records

### RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 09/12/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/28/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 01/06/2017	Last EDR Contact: 12/28/2016
Number of Days to Update: 100	Next Scheduled EDR Contact: 04/10/2017
	Data Release Frequency: Varies

### FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 07/08/2015	Telephone: 202-528-4285
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 12/08/2016
Number of Days to Update: 97	Next Scheduled EDR Contact: 03/20/2017
	Data Release Frequency: Varies

### DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 10/14/2016
Number of Days to Update: 62	Next Scheduled EDR Contact: 01/23/2017
	Data Release Frequency: Semi-Annually

### FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 10/14/2016
Number of Days to Update: 339	Next Scheduled EDR Contact: 01/23/2017
	Data Release Frequency: N/A

### SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/07/2011  
Date Data Arrived at EDR: 03/09/2011  
Date Made Active in Reports: 05/02/2011  
Number of Days to Update: 54

Source: Environmental Protection Agency  
Telephone: 615-532-8599  
Last EDR Contact: 11/17/2016  
Next Scheduled EDR Contact: 11/28/2016  
Data Release Frequency: Varies

## US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 07/12/2016  
Date Data Arrived at EDR: 08/17/2016  
Date Made Active in Reports: 10/21/2016  
Number of Days to Update: 65

Source: Environmental Protection Agency  
Telephone: 202-566-1917  
Last EDR Contact: 11/16/2016  
Next Scheduled EDR Contact: 02/27/2017  
Data Release Frequency: Quarterly

## EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013  
Date Data Arrived at EDR: 03/21/2014  
Date Made Active in Reports: 06/17/2014  
Number of Days to Update: 88

Source: Environmental Protection Agency  
Telephone: 617-520-3000  
Last EDR Contact: 11/08/2016  
Next Scheduled EDR Contact: 02/20/2017  
Data Release Frequency: Quarterly

## 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013  
Date Data Arrived at EDR: 03/03/2015  
Date Made Active in Reports: 03/09/2015  
Number of Days to Update: 6

Source: Environmental Protection Agency  
Telephone: 703-308-4044  
Last EDR Contact: 11/11/2016  
Next Scheduled EDR Contact: 02/20/2017  
Data Release Frequency: Varies

## TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012  
Date Data Arrived at EDR: 01/15/2015  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 14

Source: EPA  
Telephone: 202-260-5521  
Last EDR Contact: 12/23/2016  
Next Scheduled EDR Contact: 04/03/2017  
Data Release Frequency: Every 4 Years

## TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 11/24/2015  
Date Made Active in Reports: 04/05/2016  
Number of Days to Update: 133

Source: EPA  
Telephone: 202-566-0250  
Last EDR Contact: 11/22/2016  
Next Scheduled EDR Contact: 03/06/2017  
Data Release Frequency: Annually

## SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009  
Date Data Arrived at EDR: 12/10/2010  
Date Made Active in Reports: 02/25/2011  
Number of Days to Update: 77

Source: EPA  
Telephone: 202-564-4203  
Last EDR Contact: 10/24/2016  
Next Scheduled EDR Contact: 02/06/2017  
Data Release Frequency: Annually

## ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013  
Date Data Arrived at EDR: 12/12/2013  
Date Made Active in Reports: 02/24/2014  
Number of Days to Update: 74

Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 12/06/2016  
Next Scheduled EDR Contact: 03/20/2017  
Data Release Frequency: Annually

## RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2016  
Date Data Arrived at EDR: 08/22/2016  
Date Made Active in Reports: 11/11/2016  
Number of Days to Update: 81

Source: Environmental Protection Agency  
Telephone: 202-564-8600  
Last EDR Contact: 11/18/2016  
Next Scheduled EDR Contact: 02/06/2017  
Data Release Frequency: Varies

## RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995  
Date Data Arrived at EDR: 07/03/1995  
Date Made Active in Reports: 08/07/1995  
Number of Days to Update: 35

Source: EPA  
Telephone: 202-564-4104  
Last EDR Contact: 06/02/2008  
Next Scheduled EDR Contact: 09/01/2008  
Data Release Frequency: No Update Planned



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 11/07/2016
Number of Days to Update: 3	Next Scheduled EDR Contact: 02/20/2017
	Data Release Frequency: Quarterly

## PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2016	Source: EPA
Date Data Arrived at EDR: 04/28/2016	Telephone: 202-566-0500
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 10/14/2016
Number of Days to Update: 127	Next Scheduled EDR Contact: 01/23/2017
	Data Release Frequency: Annually

## ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/27/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/05/2016	Telephone: 202-564-5088
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 10/11/2016
Number of Days to Update: 77	Next Scheduled EDR Contact: 01/23/2017
	Data Release Frequency: Quarterly

## FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 11/17/2016
Number of Days to Update: 25	Next Scheduled EDR Contact: 03/06/2017
	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	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 11/17/2016
Number of Days to Update: 25	Next Scheduled EDR Contact: 03/06/2017
	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	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 09/08/2016	Telephone: 301-415-7169
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 11/07/2016
Number of Days to Update: 43	Next Scheduled EDR Contact: 02/20/2017
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 12/06/2016
Number of Days to Update: 76	Next Scheduled EDR Contact: 03/20/2017
	Data Release Frequency: Varies

## COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2014	Telephone: N/A
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 12/06/2016
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/20/2017
	Data Release Frequency: Varies

## PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/19/2011	Telephone: 202-566-0517
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 10/28/2016
Number of Days to Update: 83	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Varies

## RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/03/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/05/2016	Telephone: 202-343-9775
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 01/06/2017
Number of Days to Update: 16	Next Scheduled EDR Contact: 04/17/2017
	Data Release Frequency: Quarterly

## HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

## HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2008  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

## DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012  
Date Data Arrived at EDR: 08/07/2012  
Date Made Active in Reports: 09/18/2012  
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety  
Telephone: 202-366-4595  
Last EDR Contact: 11/02/2016  
Next Scheduled EDR Contact: 02/13/2017  
Data Release Frequency: Varies

## CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2016  
Date Data Arrived at EDR: 08/01/2016  
Date Made Active in Reports: 09/23/2016  
Number of Days to Update: 53

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 12/30/2016  
Next Scheduled EDR Contact: 04/10/2017  
Data Release Frequency: Varies

## BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 02/24/2015  
Date Made Active in Reports: 09/30/2015  
Number of Days to Update: 218

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 11/23/2016  
Next Scheduled EDR Contact: 03/06/2017  
Data Release Frequency: Biennially

## INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 12/08/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 34

Source: USGS  
Telephone: 202-208-3710  
Last EDR Contact: 10/14/2016  
Next Scheduled EDR Contact: 01/23/2017  
Data Release Frequency: Semi-Annually

## FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/21/2016  
Date Data Arrived at EDR: 07/26/2016  
Date Made Active in Reports: 09/23/2016  
Number of Days to Update: 59

Source: Department of Energy  
Telephone: 202-586-3559  
Last EDR Contact: 11/08/2016  
Next Scheduled EDR Contact: 02/20/2017  
Data Release Frequency: Varies

## UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/14/2010  
Date Data Arrived at EDR: 10/07/2011  
Date Made Active in Reports: 03/01/2012  
Number of Days to Update: 146

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 09/09/2016  
Next Scheduled EDR Contact: 12/05/2016  
Data Release Frequency: Varies

## LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 03/07/2016  
Date Data Arrived at EDR: 04/07/2016  
Date Made Active in Reports: 09/02/2016  
Number of Days to Update: 148

Source: Environmental Protection Agency  
Telephone: 703-603-8787  
Last EDR Contact: 01/05/2017  
Next Scheduled EDR Contact: 04/17/2017  
Data Release Frequency: Varies

## LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001  
Date Data Arrived at EDR: 10/27/2010  
Date Made Active in Reports: 12/02/2010  
Number of Days to Update: 36

Source: American Journal of Public Health  
Telephone: 703-305-6451  
Last EDR Contact: 12/02/2009  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 06/30/2016  
Date Data Arrived at EDR: 07/25/2016  
Date Made Active in Reports: 10/21/2016  
Number of Days to Update: 88

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 12/22/2016  
Next Scheduled EDR Contact: 04/10/2017  
Data Release Frequency: Annually

## US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 06/30/2016  
Date Data Arrived at EDR: 07/25/2016  
Date Made Active in Reports: 10/21/2016  
Number of Days to Update: 88

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 12/22/2016  
Next Scheduled EDR Contact: 04/10/2017  
Data Release Frequency: Annually

## US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/05/2016  
Date Data Arrived at EDR: 09/01/2016  
Date Made Active in Reports: 09/23/2016  
Number of Days to Update: 22

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 12/01/2016  
Next Scheduled EDR Contact: 03/13/2017  
Data Release Frequency: Semi-Annually

## US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/05/2005  
Date Data Arrived at EDR: 02/29/2008  
Date Made Active in Reports: 04/18/2008  
Number of Days to Update: 49

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 12/12/2016  
Next Scheduled EDR Contact: 03/13/2017  
Data Release Frequency: Varies

## US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011  
Date Data Arrived at EDR: 06/08/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 97

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 12/02/2016  
Next Scheduled EDR Contact: 03/13/2017  
Data Release Frequency: Varies

## FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/15/2016  
Date Data Arrived at EDR: 09/07/2016  
Date Made Active in Reports: 11/11/2016  
Number of Days to Update: 65

Source: EPA  
Telephone: (415) 947-8000  
Last EDR Contact: 12/06/2016  
Next Scheduled EDR Contact: 03/20/2017  
Data Release Frequency: Quarterly

## UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015  
Date Data Arrived at EDR: 01/29/2016  
Date Made Active in Reports: 04/05/2016  
Number of Days to Update: 67

Source: Department of Defense  
Telephone: 571-373-0407  
Last EDR Contact: 12/05/2016  
Next Scheduled EDR Contact: 01/30/2017  
Data Release Frequency: Varies

## DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016  
Date Data Arrived at EDR: 06/03/2016  
Date Made Active in Reports: 09/02/2016  
Number of Days to Update: 91

Source: Environmental Protection Agency  
Telephone: 202-564-0527  
Last EDR Contact: 11/28/2016  
Next Scheduled EDR Contact: 03/13/2017  
Data Release Frequency: Varies

## CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989  
Date Data Arrived at EDR: 07/27/1994  
Date Made Active in Reports: 08/02/1994  
Number of Days to Update: 6

Source: Department of Health Services  
Telephone: 916-255-2118  
Last EDR Contact: 05/31/1994  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/26/2016  
Date Data Arrived at EDR: 09/27/2016  
Date Made Active in Reports: 11/18/2016  
Number of Days to Update: 52

Source: CAL EPA/Office of Emergency Information  
Telephone: 916-323-3400  
Last EDR Contact: 12/28/2016  
Next Scheduled EDR Contact: 04/10/2017  
Data Release Frequency: Quarterly

## DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 09/02/2016  
Date Data Arrived at EDR: 09/27/2016  
Date Made Active in Reports: 12/15/2016  
Number of Days to Update: 79

Source: Department of Toxic Substance Control  
Telephone: 916-327-4498  
Last EDR Contact: 12/02/2016  
Next Scheduled EDR Contact: 03/20/2017  
Data Release Frequency: Annually

## EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 09/23/2016  
Date Made Active in Reports: 10/24/2016  
Number of Days to Update: 31

Source: California Air Resources Board  
Telephone: 916-322-2990  
Last EDR Contact: 12/23/2016  
Next Scheduled EDR Contact: 04/03/2017  
Data Release Frequency: Varies

## ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 08/22/2016  
Date Data Arrived at EDR: 08/24/2016  
Date Made Active in Reports: 10/05/2016  
Number of Days to Update: 42

Source: State Water Resources Control Board  
Telephone: 916-445-9379  
Last EDR Contact: 12/02/2016  
Next Scheduled EDR Contact: 02/06/2017  
Data Release Frequency: Varies

## Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 04/25/2016  
Date Data Arrived at EDR: 04/29/2016  
Date Made Active in Reports: 06/21/2016  
Number of Days to Update: 53

Source: Department of Toxic Substances Control  
Telephone: 916-255-3628  
Last EDR Contact: 11/24/2016  
Next Scheduled EDR Contact: 02/06/2017  
Data Release Frequency: Varies

## Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/10/2016  
Date Data Arrived at EDR: 08/15/2016  
Date Made Active in Reports: 10/05/2016  
Number of Days to Update: 51

Source: California Integrated Waste Management Board  
Telephone: 916-341-6066  
Last EDR Contact: 11/11/2016  
Next Scheduled EDR Contact: 02/27/2017  
Data Release Frequency: Varies

## HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2015  
Date Data Arrived at EDR: 10/12/2016  
Date Made Active in Reports: 12/15/2016  
Number of Days to Update: 64

Source: California Environmental Protection Agency  
Telephone: 916-255-1136  
Last EDR Contact: 10/12/2016  
Next Scheduled EDR Contact: 01/23/2017  
Data Release Frequency: Annually

## HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001  
Date Data Arrived at EDR: 01/22/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 76

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 01/22/2009  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/22/2016  
Date Data Arrived at EDR: 08/23/2016  
Date Made Active in Reports: 10/05/2016  
Number of Days to Update: 43

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 11/22/2016  
Next Scheduled EDR Contact: 03/06/2017  
Data Release Frequency: Quarterly

## HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/12/2016  
Date Made Active in Reports: 12/15/2016  
Number of Days to Update: 64

Source: Department of Toxic Substances Control  
Telephone: 916-440-7145  
Last EDR Contact: 10/12/2016  
Next Scheduled EDR Contact: 01/23/2017  
Data Release Frequency: Quarterly

## MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/12/2016  
Date Data Arrived at EDR: 09/14/2016  
Date Made Active in Reports: 10/14/2016  
Number of Days to Update: 30

Source: Department of Conservation  
Telephone: 916-322-1080  
Last EDR Contact: 12/28/2016  
Next Scheduled EDR Contact: 03/27/2017  
Data Release Frequency: Varies

## MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 09/06/2016  
Date Data Arrived at EDR: 09/07/2016  
Date Made Active in Reports: 10/14/2016  
Number of Days to Update: 37

Source: Department of Public Health  
Telephone: 916-558-1784  
Last EDR Contact: 12/06/2016  
Next Scheduled EDR Contact: 03/20/2017  
Data Release Frequency: Varies

## NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/16/2016  
Date Data Arrived at EDR: 05/18/2016  
Date Made Active in Reports: 06/23/2016  
Number of Days to Update: 36

Source: State Water Resources Control Board  
Telephone: 916-445-9379  
Last EDR Contact: 11/15/2016  
Next Scheduled EDR Contact: 02/27/2017  
Data Release Frequency: Quarterly

## PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 09/06/2016  
Date Data Arrived at EDR: 09/07/2016  
Date Made Active in Reports: 10/14/2016  
Number of Days to Update: 37

Source: Department of Pesticide Regulation  
Telephone: 916-445-4038  
Last EDR Contact: 12/06/2016  
Next Scheduled EDR Contact: 03/20/2017  
Data Release Frequency: Quarterly

## PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 09/12/2016  
Date Data Arrived at EDR: 09/14/2016  
Date Made Active in Reports: 10/14/2016  
Number of Days to Update: 30

Source: Department of Conservation  
Telephone: 916-323-3836  
Last EDR Contact: 12/14/2016  
Next Scheduled EDR Contact: 12/26/2016  
Data Release Frequency: Quarterly

## NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/19/2016  
Date Data Arrived at EDR: 09/20/2016  
Date Made Active in Reports: 12/16/2016  
Number of Days to Update: 87

Source: State Water Resources Control Board  
Telephone: 916-445-3846  
Last EDR Contact: 12/16/2016  
Next Scheduled EDR Contact: 04/03/2017  
Data Release Frequency: No Update Planned

## UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 07/06/2016  
Date Data Arrived at EDR: 09/14/2016  
Date Made Active in Reports: 10/14/2016  
Number of Days to Update: 30

Source: Department of Conservation  
Telephone: 916-445-2408  
Last EDR Contact: 12/14/2016  
Next Scheduled EDR Contact: 03/27/2017  
Data Release Frequency: Varies

## WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water board's review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 04/15/2015  
Date Data Arrived at EDR: 04/17/2015  
Date Made Active in Reports: 06/23/2015  
Number of Days to Update: 67

Source: RWQCB, Central Valley Region  
Telephone: 559-445-5577  
Last EDR Contact: 10/14/2016  
Next Scheduled EDR Contact: 01/23/2017  
Data Release Frequency: Varies

## WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/19/2007  
Date Data Arrived at EDR: 06/20/2007  
Date Made Active in Reports: 06/29/2007  
Number of Days to Update: 9

Source: State Water Resources Control Board  
Telephone: 916-341-5227  
Last EDR Contact: 11/16/2016  
Next Scheduled EDR Contact: 03/06/2017  
Data Release Frequency: Quarterly

## WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009  
Date Data Arrived at EDR: 07/21/2009  
Date Made Active in Reports: 08/03/2009  
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board  
Telephone: 213-576-6726  
Last EDR Contact: 12/22/2016  
Next Scheduled EDR Contact: 04/10/2017  
Data Release Frequency: Varies

## ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 08/22/2016  
Date Data Arrived at EDR: 08/23/2016  
Date Made Active in Reports: 10/05/2016  
Number of Days to Update: 43

Source: Department of Toxic Substances Control  
Telephone: 877-786-9427  
Last EDR Contact: 11/22/2016  
Next Scheduled EDR Contact: 03/06/2017  
Data Release Frequency: Quarterly

## ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/18/2016  
Date Data Arrived at EDR: 09/20/2016  
Date Made Active in Reports: 10/21/2016  
Number of Days to Update: 31

Source: Environmental Protection Agency  
Telephone: 202-564-2280  
Last EDR Contact: 12/20/2016  
Next Scheduled EDR Contact: 04/03/2017  
Data Release Frequency: Quarterly

## 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: 06/09/2016  
Date Data Arrived at EDR: 06/13/2016  
Date Made Active in Reports: 09/02/2016  
Number of Days to Update: 81

Source: Department of Interior  
Telephone: 202-208-2609  
Last EDR Contact: 12/09/2016  
Next Scheduled EDR Contact: 03/27/2017  
Data Release Frequency: Quarterly

## FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/22/2016  
Date Data Arrived at EDR: 08/23/2016  
Date Made Active in Reports: 10/21/2016  
Number of Days to Update: 59

Source: EPA  
Telephone: 800-385-6164  
Last EDR Contact: 11/22/2016  
Next Scheduled EDR Contact: 03/06/2017  
Data Release Frequency: Quarterly

## EDR HIGH RISK HISTORICAL RECORDS

### *EDR Exclusive Records*

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## EDR Hist Auto: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## EDR RECOVERED GOVERNMENT ARCHIVES

### ***Exclusive Recovered Govt. Archives***

#### RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 01/13/2014  
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 12/30/2013  
Number of Days to Update: 182

Source: State Water Resources Control Board  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## COUNTY RECORDS

### ALAMEDA COUNTY:

#### Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/14/2016  
Date Made Active in Reports: 11/18/2016  
Number of Days to Update: 35

Source: Alameda County Environmental Health Services  
Telephone: 510-567-6700  
Last EDR Contact: 10/07/2016  
Next Scheduled EDR Contact: 01/23/2017  
Data Release Frequency: Semi-Annually

#### Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 07/07/2016  
Date Data Arrived at EDR: 07/12/2016  
Date Made Active in Reports: 08/08/2016  
Number of Days to Update: 27

Source: Alameda County Environmental Health Services  
Telephone: 510-567-6700  
Last EDR Contact: 10/07/2016  
Next Scheduled EDR Contact: 01/23/2017  
Data Release Frequency: Semi-Annually

### AMADOR COUNTY:

#### CUPA Facility List

Cupa Facility List

Date of Government Version: 11/10/2016  
Date Data Arrived at EDR: 12/13/2016  
Date Made Active in Reports: 12/22/2016  
Number of Days to Update: 9

Source: Amador County Environmental Health  
Telephone: 209-223-6439  
Last EDR Contact: 12/02/2016  
Next Scheduled EDR Contact: 03/20/2017  
Data Release Frequency: Varies

### BUTTE COUNTY:

#### CUPA Facility Listing

Cupa facility list.

Date of Government Version: 10/21/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 11/18/2016  
Number of Days to Update: 23

Source: Public Health Department  
Telephone: 530-538-7149  
Last EDR Contact: 10/24/2016  
Next Scheduled EDR Contact: 01/23/2017  
Data Release Frequency: No Update Planned

### CALVERAS COUNTY:



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA Facility Listing

### Cupa Facility Listing

Date of Government Version: 10/25/2016  
Date Data Arrived at EDR: 10/27/2016  
Date Made Active in Reports: 11/18/2016  
Number of Days to Update: 22

Source: Calveras County Environmental Health  
Telephone: 209-754-6399  
Last EDR Contact: 12/27/2016  
Next Scheduled EDR Contact: 04/10/2017  
Data Release Frequency: Quarterly

## COLUSA COUNTY:

### CUPA Facility List

#### Cupa facility list.

Date of Government Version: 09/02/2016  
Date Data Arrived at EDR: 09/06/2016  
Date Made Active in Reports: 10/14/2016  
Number of Days to Update: 38

Source: Health & Human Services  
Telephone: 530-458-0396  
Last EDR Contact: 11/07/2016  
Next Scheduled EDR Contact: 02/20/2017  
Data Release Frequency: Varies

## CONTRA COSTA COUNTY:

### Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 08/22/2016  
Date Data Arrived at EDR: 08/24/2016  
Date Made Active in Reports: 10/10/2016  
Number of Days to Update: 47

Source: Contra Costa Health Services Department  
Telephone: 925-646-2286  
Last EDR Contact: 10/31/2016  
Next Scheduled EDR Contact: 02/13/2017  
Data Release Frequency: Semi-Annually

## DEL NORTE COUNTY:

### CUPA Facility List

#### Cupa Facility list

Date of Government Version: 11/01/2016  
Date Data Arrived at EDR: 11/03/2016  
Date Made Active in Reports: 11/22/2016  
Number of Days to Update: 19

Source: Del Norte County Environmental Health Division  
Telephone: 707-465-0426  
Last EDR Contact: 10/31/2016  
Next Scheduled EDR Contact: 02/13/2017  
Data Release Frequency: Varies

## EL DORADO COUNTY:

### CUPA Facility List

#### CUPA facility list.

Date of Government Version: 05/24/2016  
Date Data Arrived at EDR: 05/26/2016  
Date Made Active in Reports: 08/09/2016  
Number of Days to Update: 75

Source: El Dorado County Environmental Management Department  
Telephone: 530-621-6623  
Last EDR Contact: 10/31/2016  
Next Scheduled EDR Contact: 02/13/2017  
Data Release Frequency: Varies

## FRESNO COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 10/11/2016  
Date Data Arrived at EDR: 10/14/2016  
Date Made Active in Reports: 11/18/2016  
Number of Days to Update: 35

Source: Dept. of Community Health  
Telephone: 559-445-3271  
Last EDR Contact: 01/03/2017  
Next Scheduled EDR Contact: 04/17/2017  
Data Release Frequency: Semi-Annually

## HUMBOLDT COUNTY:

### CUPA Facility List

CUPA facility list.

Date of Government Version: 10/25/2016  
Date Data Arrived at EDR: 10/27/2016  
Date Made Active in Reports: 11/18/2016  
Number of Days to Update: 22

Source: Humboldt County Environmental Health  
Telephone: N/A  
Last EDR Contact: 11/21/2016  
Next Scheduled EDR Contact: 03/06/2017  
Data Release Frequency: Varies

## IMPERIAL COUNTY:

### CUPA Facility List

Cupa facility list.

Date of Government Version: 10/24/2016  
Date Data Arrived at EDR: 10/27/2016  
Date Made Active in Reports: 11/18/2016  
Number of Days to Update: 22

Source: San Diego Border Field Office  
Telephone: 760-339-2777  
Last EDR Contact: 10/24/2016  
Next Scheduled EDR Contact: 02/06/2017  
Data Release Frequency: Varies

## INYO COUNTY:

### CUPA Facility List

Cupa facility list.

Date of Government Version: 09/10/2013  
Date Data Arrived at EDR: 09/11/2013  
Date Made Active in Reports: 10/14/2013  
Number of Days to Update: 33

Source: Inyo County Environmental Health Services  
Telephone: 760-878-0238  
Last EDR Contact: 12/02/2016  
Next Scheduled EDR Contact: 03/06/2017  
Data Release Frequency: Varies

## KERN COUNTY:

### Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 08/04/2016  
Date Data Arrived at EDR: 08/08/2016  
Date Made Active in Reports: 10/18/2016  
Number of Days to Update: 71

Source: Kern County Environment Health Services Department  
Telephone: 661-862-8700  
Last EDR Contact: 11/07/2016  
Next Scheduled EDR Contact: 02/20/2017  
Data Release Frequency: Quarterly

## KINGS COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 12/14/2016  
Date Data Arrived at EDR: 12/16/2016  
Date Made Active in Reports: 12/22/2016  
Number of Days to Update: 6

Source: Kings County Department of Public Health  
Telephone: 559-584-1411  
Last EDR Contact: 11/16/2016  
Next Scheduled EDR Contact: 03/06/2017  
Data Release Frequency: Varies

## LAKE COUNTY:

### CUPA Facility List

Cupa facility list

Date of Government Version: 09/08/2016  
Date Data Arrived at EDR: 09/09/2016  
Date Made Active in Reports: 10/14/2016  
Number of Days to Update: 35

Source: Lake County Environmental Health  
Telephone: 707-263-1164  
Last EDR Contact: 10/17/2016  
Next Scheduled EDR Contact: 01/30/2017  
Data Release Frequency: Varies

## LOS ANGELES COUNTY:

### San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009  
Date Data Arrived at EDR: 03/31/2009  
Date Made Active in Reports: 10/23/2009  
Number of Days to Update: 206

Source: EPA Region 9  
Telephone: 415-972-3178  
Last EDR Contact: 12/15/2016  
Next Scheduled EDR Contact: 04/03/2017  
Data Release Frequency: No Update Planned

### HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/05/2016  
Date Data Arrived at EDR: 07/12/2016  
Date Made Active in Reports: 08/18/2016  
Number of Days to Update: 37

Source: Department of Public Works  
Telephone: 626-458-3517  
Last EDR Contact: 11/07/2016  
Next Scheduled EDR Contact: 01/23/2017  
Data Release Frequency: Semi-Annually

### List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/17/2016  
Date Data Arrived at EDR: 10/18/2016  
Date Made Active in Reports: 12/15/2016  
Number of Days to Update: 58

Source: La County Department of Public Works  
Telephone: 818-458-5185  
Last EDR Contact: 10/18/2016  
Next Scheduled EDR Contact: 01/30/2017  
Data Release Frequency: Varies

### City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2016  
Date Data Arrived at EDR: 01/26/2016  
Date Made Active in Reports: 03/22/2016  
Number of Days to Update: 56

Source: Engineering & Construction Division  
Telephone: 213-473-7869  
Last EDR Contact: 10/17/2016  
Next Scheduled EDR Contact: 01/30/2017  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/29/2016	Source: Community Health Services
Date Data Arrived at EDR: 04/06/2016	Telephone: 323-890-7806
Date Made Active in Reports: 06/13/2016	Last EDR Contact: 10/17/2016
Number of Days to Update: 68	Next Scheduled EDR Contact: 01/30/2017
	Data Release Frequency: Annually

## City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 03/30/2015	Source: City of El Segundo Fire Department
Date Data Arrived at EDR: 04/02/2015	Telephone: 310-524-2236
Date Made Active in Reports: 04/13/2015	Last EDR Contact: 10/17/2016
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/30/2017
	Data Release Frequency: Semi-Annually

## City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 11/04/2015	Source: City of Long Beach Fire Department
Date Data Arrived at EDR: 11/13/2015	Telephone: 562-570-2563
Date Made Active in Reports: 12/17/2015	Last EDR Contact: 10/24/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Annually

## City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 06/23/2016	Source: City of Torrance Fire Department
Date Data Arrived at EDR: 07/12/2016	Telephone: 310-618-2973
Date Made Active in Reports: 08/09/2016	Last EDR Contact: 10/07/2016
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/23/2017
	Data Release Frequency: Semi-Annually

## MADERA COUNTY:

### CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/18/2016	Source: Madera County Environmental Health
Date Data Arrived at EDR: 08/22/2016	Telephone: 559-675-7823
Date Made Active in Reports: 09/23/2016	Last EDR Contact: 11/16/2016
Number of Days to Update: 32	Next Scheduled EDR Contact: 03/06/2017
	Data Release Frequency: Varies

## MARIN COUNTY:

### Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 04/07/2016	Source: Public Works Department Waste Management
Date Data Arrived at EDR: 04/26/2016	Telephone: 415-499-6647
Date Made Active in Reports: 06/01/2016	Last EDR Contact: 01/03/2017
Number of Days to Update: 36	Next Scheduled EDR Contact: 04/17/2017
	Data Release Frequency: Semi-Annually

## MERCED COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA Facility List

CUPA facility list.

Date of Government Version: 08/17/2016  
Date Data Arrived at EDR: 08/22/2016  
Date Made Active in Reports: 09/23/2016  
Number of Days to Update: 32

Source: Merced County Environmental Health  
Telephone: 209-381-1094  
Last EDR Contact: 12/02/2016  
Next Scheduled EDR Contact: 03/06/2017  
Data Release Frequency: Varies

## MONO COUNTY:

### CUPA Facility List

CUPA Facility List

Date of Government Version: 11/29/2016  
Date Data Arrived at EDR: 12/05/2016  
Date Made Active in Reports: 12/22/2016  
Number of Days to Update: 17

Source: Mono County Health Department  
Telephone: 760-932-5580  
Last EDR Contact: 11/28/2016  
Next Scheduled EDR Contact: 03/13/2017  
Data Release Frequency: Varies

## MONTEREY COUNTY:

### CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/24/2016  
Date Data Arrived at EDR: 06/27/2016  
Date Made Active in Reports: 08/09/2016  
Number of Days to Update: 43

Source: Monterey County Health Department  
Telephone: 831-796-1297  
Last EDR Contact: 11/21/2016  
Next Scheduled EDR Contact: 03/06/2017  
Data Release Frequency: Varies

## NAPA COUNTY:

### Sites With Reported Contamination

A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011  
Date Data Arrived at EDR: 12/06/2011  
Date Made Active in Reports: 02/07/2012  
Number of Days to Update: 63

Source: Napa County Department of Environmental Management  
Telephone: 707-253-4269  
Last EDR Contact: 11/28/2016  
Next Scheduled EDR Contact: 03/13/2017  
Data Release Frequency: No Update Planned

### Closed and Operating Underground Storage Tank Sites

Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008  
Date Data Arrived at EDR: 01/16/2008  
Date Made Active in Reports: 02/08/2008  
Number of Days to Update: 23

Source: Napa County Department of Environmental Management  
Telephone: 707-253-4269  
Last EDR Contact: 12/22/2016  
Next Scheduled EDR Contact: 03/13/2017  
Data Release Frequency: No Update Planned

## NEVADA COUNTY:

### CUPA Facility List

CUPA facility list.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/07/2016  
Date Data Arrived at EDR: 11/08/2016  
Date Made Active in Reports: 12/22/2016  
Number of Days to Update: 44

Source: Community Development Agency  
Telephone: 530-265-1467  
Last EDR Contact: 10/31/2016  
Next Scheduled EDR Contact: 02/13/2017  
Data Release Frequency: Varies

## ORANGE COUNTY:

### List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 08/01/2016  
Date Data Arrived at EDR: 08/15/2016  
Date Made Active in Reports: 10/05/2016  
Number of Days to Update: 51

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 11/07/2016  
Next Scheduled EDR Contact: 02/20/2017  
Data Release Frequency: Annually

### List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 08/03/2016  
Date Data Arrived at EDR: 08/15/2016  
Date Made Active in Reports: 10/07/2016  
Number of Days to Update: 53

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 11/07/2016  
Next Scheduled EDR Contact: 02/20/2017  
Data Release Frequency: Quarterly

### List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 08/01/2016  
Date Data Arrived at EDR: 08/09/2016  
Date Made Active in Reports: 10/11/2016  
Number of Days to Update: 33

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 11/08/2016  
Next Scheduled EDR Contact: 02/20/2017  
Data Release Frequency: Quarterly

## PLACER COUNTY:

### Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/02/2016  
Date Data Arrived at EDR: 09/06/2016  
Date Made Active in Reports: 10/14/2016  
Number of Days to Update: 38

Source: Placer County Health and Human Services  
Telephone: 530-745-2363  
Last EDR Contact: 12/02/2016  
Next Scheduled EDR Contact: 03/20/2017  
Data Release Frequency: Semi-Annually

## RIVERSIDE COUNTY:

### Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 10/20/2016  
Date Data Arrived at EDR: 10/25/2016  
Date Made Active in Reports: 12/15/2016  
Number of Days to Update: 51

Source: Department of Environmental Health  
Telephone: 951-358-5055  
Last EDR Contact: 12/19/2016  
Next Scheduled EDR Contact: 04/03/2017  
Data Release Frequency: Quarterly



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 07/13/2016  
Date Data Arrived at EDR: 07/18/2016  
Date Made Active in Reports: 08/08/2016  
Number of Days to Update: 21

Source: Department of Environmental Health  
Telephone: 951-358-5055  
Last EDR Contact: 12/19/2016  
Next Scheduled EDR Contact: 04/03/2017  
Data Release Frequency: Quarterly

## SACRAMENTO COUNTY:

### Toxic Site Clean-Up List

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 08/22/2016  
Date Data Arrived at EDR: 10/04/2016  
Date Made Active in Reports: 11/18/2016  
Number of Days to Update: 45

Source: Sacramento County Environmental Management  
Telephone: 916-875-8406  
Last EDR Contact: 01/05/2017  
Next Scheduled EDR Contact: 04/17/2017  
Data Release Frequency: Quarterly

### Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/22/2016  
Date Data Arrived at EDR: 10/04/2016  
Date Made Active in Reports: 12/16/2016  
Number of Days to Update: 73

Source: Sacramento County Environmental Management  
Telephone: 916-875-8406  
Last EDR Contact: 01/05/2017  
Next Scheduled EDR Contact: 04/17/2017  
Data Release Frequency: Quarterly

## SAN BERNARDINO COUNTY:

### Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 09/06/2016  
Date Data Arrived at EDR: 09/07/2016  
Date Made Active in Reports: 10/19/2016  
Number of Days to Update: 42

Source: San Bernardino County Fire Department Hazardous Materials Division  
Telephone: 909-387-3041  
Last EDR Contact: 11/07/2016  
Next Scheduled EDR Contact: 02/20/2017  
Data Release Frequency: Quarterly

## SAN DIEGO COUNTY:

### Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/23/2013  
Date Data Arrived at EDR: 09/24/2013  
Date Made Active in Reports: 10/17/2013  
Number of Days to Update: 23

Source: Hazardous Materials Management Division  
Telephone: 619-338-2268  
Last EDR Contact: 12/06/2016  
Next Scheduled EDR Contact: 03/20/2017  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015  
Date Data Arrived at EDR: 11/07/2015  
Date Made Active in Reports: 01/04/2016  
Number of Days to Update: 58

Source: Department of Health Services  
Telephone: 619-338-2209  
Last EDR Contact: 12/21/2016  
Next Scheduled EDR Contact: 02/06/2017  
Data Release Frequency: Varies

## Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010  
Date Data Arrived at EDR: 06/15/2010  
Date Made Active in Reports: 07/09/2010  
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health  
Telephone: 619-338-2371  
Last EDR Contact: 12/02/2016  
Next Scheduled EDR Contact: 03/20/2017  
Data Release Frequency: No Update Planned

## SAN FRANCISCO COUNTY:

### Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008  
Date Data Arrived at EDR: 09/19/2008  
Date Made Active in Reports: 09/29/2008  
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County  
Telephone: 415-252-3920  
Last EDR Contact: 11/07/2016  
Next Scheduled EDR Contact: 02/20/2017  
Data Release Frequency: Quarterly

### Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010  
Date Data Arrived at EDR: 03/10/2011  
Date Made Active in Reports: 03/15/2011  
Number of Days to Update: 5

Source: Department of Public Health  
Telephone: 415-252-3920  
Last EDR Contact: 11/16/2016  
Next Scheduled EDR Contact: 02/20/2017  
Data Release Frequency: Quarterly

## SAN JOAQUIN COUNTY:

### San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 09/21/2016  
Date Data Arrived at EDR: 09/22/2016  
Date Made Active in Reports: 10/18/2016  
Number of Days to Update: 26

Source: Environmental Health Department  
Telephone: N/A  
Last EDR Contact: 12/15/2016  
Next Scheduled EDR Contact: 04/03/2017  
Data Release Frequency: Semi-Annually

## SAN LUIS OBISPO COUNTY:

### CUPA Facility List

Cupa Facility List.

Date of Government Version: 08/18/2016  
Date Data Arrived at EDR: 08/22/2016  
Date Made Active in Reports: 10/04/2016  
Number of Days to Update: 43

Source: San Luis Obispo County Public Health Department  
Telephone: 805-781-5596  
Last EDR Contact: 11/16/2016  
Next Scheduled EDR Contact: 03/06/2017  
Data Release Frequency: Varies

## SAN MATEO COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 06/02/2016  
Date Data Arrived at EDR: 06/07/2016  
Date Made Active in Reports: 06/22/2016  
Number of Days to Update: 15

Source: San Mateo County Environmental Health Services Division  
Telephone: 650-363-1921  
Last EDR Contact: 12/09/2016  
Next Scheduled EDR Contact: 03/20/2017  
Data Release Frequency: Annually

## Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 06/09/2016  
Date Data Arrived at EDR: 06/13/2016  
Date Made Active in Reports: 08/09/2016  
Number of Days to Update: 57

Source: San Mateo County Environmental Health Services Division  
Telephone: 650-363-1921  
Last EDR Contact: 12/09/2016  
Next Scheduled EDR Contact: 03/27/2017  
Data Release Frequency: Semi-Annually

## SANTA BARBARA COUNTY:

### CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011  
Date Data Arrived at EDR: 09/09/2011  
Date Made Active in Reports: 10/07/2011  
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department  
Telephone: 805-686-8167  
Last EDR Contact: 11/16/2016  
Next Scheduled EDR Contact: 03/06/2017  
Data Release Frequency: Varies

## SANTA CLARA COUNTY:

### Cupa Facility List

Cupa facility list

Date of Government Version: 08/17/2016  
Date Data Arrived at EDR: 08/22/2016  
Date Made Active in Reports: 10/04/2016  
Number of Days to Update: 43

Source: Department of Environmental Health  
Telephone: 408-918-1973  
Last EDR Contact: 11/16/2016  
Next Scheduled EDR Contact: 03/06/2017  
Data Release Frequency: Varies

### HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005  
Date Data Arrived at EDR: 03/30/2005  
Date Made Active in Reports: 04/21/2005  
Number of Days to Update: 22

Source: Santa Clara Valley Water District  
Telephone: 408-265-2600  
Last EDR Contact: 03/23/2009  
Next Scheduled EDR Contact: 06/22/2009  
Data Release Frequency: No Update Planned

### LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014  
Date Data Arrived at EDR: 03/05/2014  
Date Made Active in Reports: 03/18/2014  
Number of Days to Update: 13

Source: Department of Environmental Health  
Telephone: 408-918-3417  
Last EDR Contact: 11/28/2016  
Next Scheduled EDR Contact: 03/13/2017  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 08/03/2016  
Date Data Arrived at EDR: 08/08/2016  
Date Made Active in Reports: 10/07/2016  
Number of Days to Update: 60

Source: City of San Jose Fire Department  
Telephone: 408-535-7694  
Last EDR Contact: 11/07/2016  
Next Scheduled EDR Contact: 02/20/2017  
Data Release Frequency: Annually

## SANTA CRUZ COUNTY:

### CUPA Facility List

CUPA facility listing.

Date of Government Version: 08/17/2016  
Date Data Arrived at EDR: 08/22/2016  
Date Made Active in Reports: 10/04/2016  
Number of Days to Update: 43

Source: Santa Cruz County Environmental Health  
Telephone: 831-464-2761  
Last EDR Contact: 11/16/2016  
Next Scheduled EDR Contact: 03/06/2017  
Data Release Frequency: Varies

## SHASTA COUNTY:

### CUPA Facility List

Cupa Facility List.

Date of Government Version: 09/12/2016  
Date Data Arrived at EDR: 09/15/2016  
Date Made Active in Reports: 10/14/2016  
Number of Days to Update: 29

Source: Shasta County Department of Resource Management  
Telephone: 530-225-5789  
Last EDR Contact: 11/21/2016  
Next Scheduled EDR Contact: 03/06/2017  
Data Release Frequency: Varies

## SOLANO COUNTY:

### Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2016  
Date Data Arrived at EDR: 12/21/2016  
Date Made Active in Reports: 12/22/2016  
Number of Days to Update: 1

Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 12/09/2016  
Next Scheduled EDR Contact: 03/27/2017  
Data Release Frequency: Quarterly

### Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 09/26/2016  
Date Data Arrived at EDR: 09/29/2016  
Date Made Active in Reports: 10/18/2016  
Number of Days to Update: 19

Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 12/09/2016  
Next Scheduled EDR Contact: 03/27/2017  
Data Release Frequency: Quarterly

## SONOMA COUNTY:

### Cupa Facility List

Cupa Facility list

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/27/2016  
Date Data Arrived at EDR: 09/28/2016  
Date Made Active in Reports: 11/22/2016  
Number of Days to Update: 55

Source: County of Sonoma Fire & Emergency Services Department  
Telephone: 707-565-1174  
Last EDR Contact: 12/22/2016  
Next Scheduled EDR Contact: 04/10/2017  
Data Release Frequency: Varies

## Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 10/04/2016  
Date Data Arrived at EDR: 10/06/2016  
Date Made Active in Reports: 12/16/2016  
Number of Days to Update: 71

Source: Department of Health Services  
Telephone: 707-565-6565  
Last EDR Contact: 12/22/2016  
Next Scheduled EDR Contact: 04/10/2017  
Data Release Frequency: Quarterly

## SUTTER COUNTY:

### Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 08/05/2016  
Date Data Arrived at EDR: 09/06/2016  
Date Made Active in Reports: 12/02/2016  
Number of Days to Update: 87

Source: Sutter County Department of Agriculture  
Telephone: 530-822-7500  
Last EDR Contact: 12/02/2016  
Next Scheduled EDR Contact: 03/20/2017  
Data Release Frequency: Semi-Annually

## TUOLUMNE COUNTY:

### CUPA Facility List

Cupa facility list

Date of Government Version: 08/12/2016  
Date Data Arrived at EDR: 08/16/2016  
Date Made Active in Reports: 10/04/2016  
Number of Days to Update: 49

Source: Division of Environmental Health  
Telephone: 209-533-5633  
Last EDR Contact: 10/24/2016  
Next Scheduled EDR Contact: 02/06/2017  
Data Release Frequency: Varies

## VENTURA COUNTY:

### Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 06/28/2016  
Date Data Arrived at EDR: 08/01/2016  
Date Made Active in Reports: 09/23/2016  
Number of Days to Update: 53

Source: Ventura County Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 10/24/2016  
Next Scheduled EDR Contact: 02/06/2017  
Data Release Frequency: Quarterly

### Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011  
Date Data Arrived at EDR: 12/01/2011  
Date Made Active in Reports: 01/19/2012  
Number of Days to Update: 49

Source: Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 12/30/2016  
Next Scheduled EDR Contact: 04/10/2017  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008	Source: Environmental Health Division
Date Data Arrived at EDR: 06/24/2008	Telephone: 805-654-2813
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 11/14/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 02/27/2017
	Data Release Frequency: Quarterly

## Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 06/28/2016	Source: Ventura County Resource Management Agency
Date Data Arrived at EDR: 08/01/2016	Telephone: 805-654-2813
Date Made Active in Reports: 10/07/2016	Last EDR Contact: 10/24/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Quarterly

## Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 08/29/2016	Source: Environmental Health Division
Date Data Arrived at EDR: 09/14/2016	Telephone: 805-654-2813
Date Made Active in Reports: 10/11/2016	Last EDR Contact: 12/14/2016
Number of Days to Update: 27	Next Scheduled EDR Contact: 03/27/2017
	Data Release Frequency: Quarterly

## YOLO COUNTY:

### Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 06/30/2016	Source: Yolo County Department of Health
Date Data Arrived at EDR: 08/24/2016	Telephone: 530-666-8646
Date Made Active in Reports: 10/11/2016	Last EDR Contact: 01/03/2017
Number of Days to Update: 48	Next Scheduled EDR Contact: 04/17/2017
	Data Release Frequency: Annually

## YUBA COUNTY:

### CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 10/28/2016	Source: Yuba County Environmental Health Department
Date Data Arrived at EDR: 11/03/2016	Telephone: 530-749-7523
Date Made Active in Reports: 12/15/2016	Last EDR Contact: 10/31/2016
Number of Days to Update: 42	Next Scheduled EDR Contact: 02/13/2017
	Data Release Frequency: Varies

## OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013  
Date Data Arrived at EDR: 08/19/2013  
Date Made Active in Reports: 10/03/2013  
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3375  
Last EDR Contact: 11/11/2016  
Next Scheduled EDR Contact: 02/27/2017  
Data Release Frequency: No Update Planned

## NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015  
Date Data Arrived at EDR: 09/29/2016  
Date Made Active in Reports: 01/03/2017  
Number of Days to Update: 96

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 10/12/2016  
Next Scheduled EDR Contact: 01/23/2017  
Data Release Frequency: Annually

## NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 10/01/2016  
Date Data Arrived at EDR: 11/02/2016  
Date Made Active in Reports: 01/04/2017  
Number of Days to Update: 63

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 11/02/2016  
Next Scheduled EDR Contact: 02/13/2017  
Data Release Frequency: Annually

## PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015  
Date Data Arrived at EDR: 07/22/2016  
Date Made Active in Reports: 11/22/2016  
Number of Days to Update: 123

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 10/14/2016  
Next Scheduled EDR Contact: 01/30/2017  
Data Release Frequency: Annually

## RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 06/19/2015  
Date Made Active in Reports: 07/15/2015  
Number of Days to Update: 26

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 11/21/2016  
Next Scheduled EDR Contact: 03/06/2017  
Data Release Frequency: Annually

## WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015  
Date Data Arrived at EDR: 04/14/2016  
Date Made Active in Reports: 06/03/2016  
Number of Days to Update: 50

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 12/12/2016  
Next Scheduled EDR Contact: 03/27/2017  
Data Release Frequency: Annually

## Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

## Electric Power Transmission Line Data

Source: PennWell Corporation

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## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

### AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

### Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

### Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

### Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

### Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

### Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

**Flood Zone Data:** This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Wetland Inventory

Source: Department of Fish & Game

Telephone: 916-445-0411

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## STREET AND ADDRESS INFORMATION

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## GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

RESIDENTIAL AND VACANT  
4343 AND 4371 E. LIVE OAK AVENUE  
ARCADIA, CA 91006

### TARGET PROPERTY COORDINATES

Latitude (North): 34.111187 - 34° 6' 40.27"  
Longitude (West): 118.007772 - 118° 0' 27.98"  
Universal Transverse Mercator: Zone 11  
UTM X (Meters): 407052.0  
UTM Y (Meters): 3774748.0  
Elevation: 353 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map: 5630799 EL MONTE, CA  
Version Date: 2012

Northeast Map: 5630601 AZUSA, CA  
Version Date: 2012

Southeast Map: 5619056 BALDWIN PARK, CA  
Version Date: 2012

Northwest Map: 5636853 MOUNT WILSON, CA  
Version Date: 2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

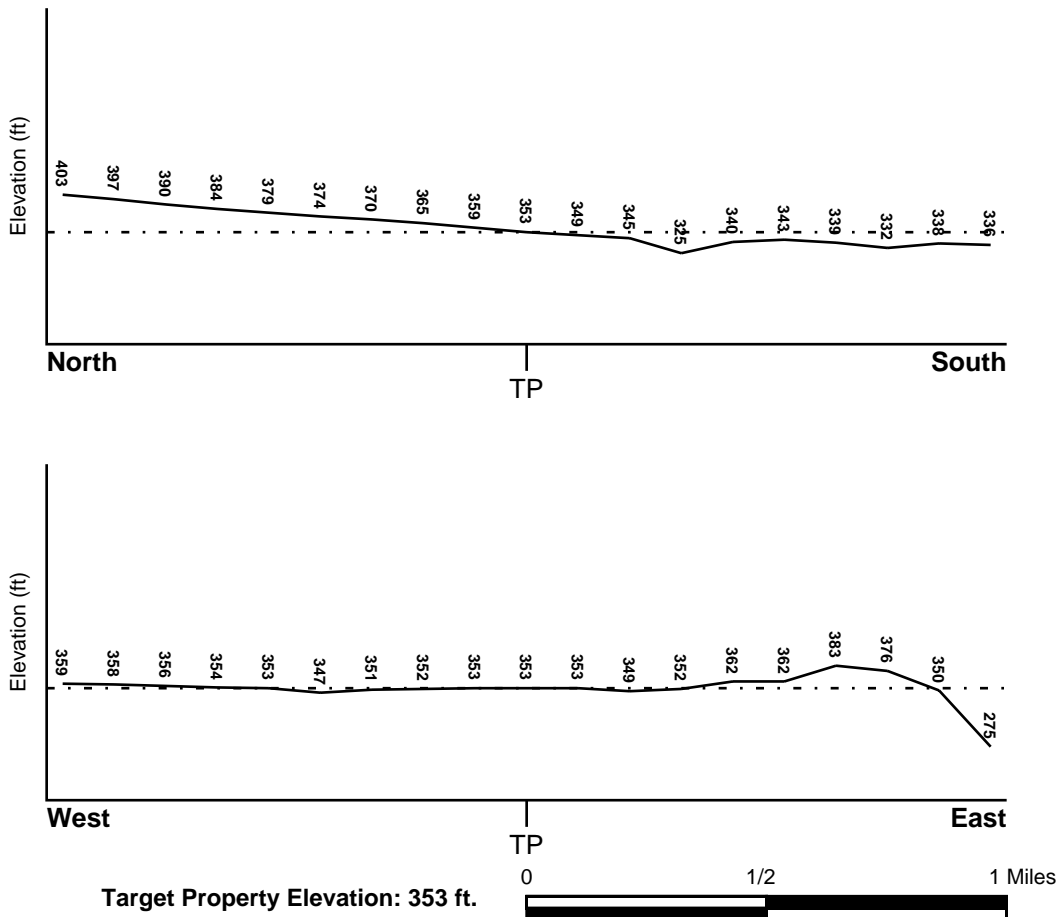
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General South

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

## FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
06037C1675F	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
06037C1400F	FEMA FIRM Flood data
06037C1700F	FEMA FIRM Flood data

## NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
EL MONTE	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
Location Relative to TP:	1/2 - 1 Mile SSW
Site Name:	San Gabriel Valley (Area 1)
Site EPA ID Number:	CAD980677355
Groundwater Flow Direction:	CONSISTENT WITH TOPOGRAPHICAL CONDITIONS IN THE ABSENCE OF PUMPING OF WELLS.
Measured Depth to Water:	230 feet in the northeast portion of the site to 300 feet in the southwest portion of the site.
Hydraulic Connection:	Information is not available about the hydraulic connection between aquifer(s) underlying the site.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information based on site-specific subsurface investigations is documented in the CERCLIS investigation report(s)

## AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		



# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

## GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

### **ROCK STRATIGRAPHIC UNIT**

Era: Cenozoic  
System: Quaternary  
Series: Quaternary  
Code: Q (*decoded above as Era, System & Series*)

### **GEOLOGIC AGE IDENTIFICATION**

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

## 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							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

### OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: loam  
 clay  
 silt loam  
 loamy sand  
 sandy loam  
 fine sand  
 clay loam  
 gravelly - sandy loam  
 coarse sand  
 gravelly - sand  
 sand

Surficial Soil Types: loam  
 clay  
 silt loam  
 loamy sand  
 sandy loam  
 fine sand  
 clay loam  
 gravelly - sandy loam  
 coarse sand  
 gravelly - sand  
 sand

Shallow Soil Types: fine sandy loam  
 gravelly - loam  
 sand  
 silty clay

Deeper Soil Types: stratified  
 clay loam  
 silty clay loam  
 gravelly - sandy loam  
 coarse sand  
 sand  
 weathered bedrock  
 very fine sandy loam

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

## WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

## FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	USGS40000141154	1/4 - 1/2 Mile SSE
2	USGS40000141199	1/4 - 1/2 Mile SE
A3	USGS40000141153	1/4 - 1/2 Mile SSE
4	USGS40000141399	1/4 - 1/2 Mile NNW
5	USGS40000141406	1/4 - 1/2 Mile NNE
B6	USGS40000141439	1/2 - 1 Mile NNE
B13	USGS40000141452	1/2 - 1 Mile North
14	USGS40000141119	1/2 - 1 Mile SW

## FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

## STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
C7	1329	1/2 - 1 Mile NE
C8	1328	1/2 - 1 Mile NE
C9	1331	1/2 - 1 Mile NE
C10	22849	1/2 - 1 Mile NE
C11	1332	1/2 - 1 Mile NE
B12	1330	1/2 - 1 Mile North
D15	1335	1/2 - 1 Mile SSE
D16	1334	1/2 - 1 Mile SSE
D17	1333	1/2 - 1 Mile SSE
D18	1336	1/2 - 1 Mile SSE
D19	1359	1/2 - 1 Mile SSE
D20	1338	1/2 - 1 Mile SSE
D21	1337	1/2 - 1 Mile SSE

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
22	CADW60000005094	1/2 - 1 Mile East
E23	1355	1/2 - 1 Mile SW
E24	1354	1/2 - 1 Mile SW

## OTHER STATE DATABASE INFORMATION

## STATE OIL/GAS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	CAOG11000204462	1/2 - 1 Mile SSE

# PHYSICAL SETTING SOURCE MAP - 4822613.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: Residential and Vacant  
 ADDRESS: 4343 and 4371 E. Live Oak Avenue  
 Arcadia CA 91006  
 LAT/LONG: 34.111187 / 118.007772

CLIENT: The Reynolds Group  
 CONTACT: Rosanne Fischer  
 INQUIRY #: 4822613.2s  
 DATE: January 09, 2017 4:20 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**A1**  
**SSE**  
**1/4 - 1/2 Mile**  
**Lower**

**FED USGS      USGS40000141154**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340623118001801		
Monloc name:	001S011W02F002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070106	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.1066747
Longitude:	-118.0058994	Sourcemap scale:	24000
Horiz Acc measure:	Unknown	Horiz Acc measure units:	Unknown
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	656
Welldepth units:	ft	Wellholedepth:	656
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

**2**  
**SE**  
**1/4 - 1/2 Mile**  
**Lower**

**FED USGS      USGS40000141199**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340628118000801		
Monloc name:	001S011W02G002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070105	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.1077858
Longitude:	-118.0031215	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	476
Construction date:	Not Reported	Wellholeddepth:	476
Welldepth units:	ft		
Wellholeddepth units:	ft		

Ground-water levels, Number of Measurements: 0

**A3  
SSE  
1/4 - 1/2 Mile  
Higher**

**FED USGS      USGS40000141153**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340623118001601		
Monloc name:	001S011W02F001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070106	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.1063969
Longitude:	-118.0053438	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	550
Welldepth units:	ft	Wellholeddepth:	550
Wellholeddepth units:	ft		

Ground-water levels, Number of Measurements: 0

**4  
NNW  
1/4 - 1/2 Mile  
Higher**

**FED USGS      USGS40000141399**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340702118003301		
Monloc name:	001S011W02G001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070105	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.1172299
Longitude:	-118.0100662	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	500
Construction date:	Not Reported	Wellholeddepth:	500
Welldepth units:	ft		
Wellholeddepth units:	ft		

Ground-water levels, Number of Measurements: 0

**5**  
**NNE**  
**1/4 - 1/2 Mile**  
**Higher**

**FED USGS      USGS40000141406**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340703118001501		
Monloc name:	001S011W02B001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070105	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.1175076
Longitude:	-118.005066	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	540
Welldepth units:	ft	Wellholeddepth:	540
Wellholeddepth units:	ft		

Ground-water levels, Number of Measurements: 0

**B6**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000141439**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340708118001701		
Monloc name:	001N011W35L002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070105	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.1188965
Longitude:	-118.0056216	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type:	Not Reported	Welldepth:	Not Reported
Construction date:	Not Reported	Wellholedepth:	Not Reported
Welldepth units:	Not Reported		
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

**C7**  
**NE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS 1329**

**Water System Information:**

Prime Station Code:	01S/11W-02C01 S	User ID:	MET
FRDS Number:	1910212013	County:	Los Angeles
District Number:	15	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Inactive Raw
Source Lat/Long:	340700.0 1180000.0	Precision:	Undefined
Source Name:	JEFFRIES WELL 03 - INACTIVE		
System Number:	1910212		
System Name:	SCWC-SOUTH ARCADIA		
Organization That Operates System:	P.O. BOX 9016		
	SAN DIMAS, CA 91773		
Pop Served:	23034	Connections:	6980
Area Served:	Not Reported		

**C8**  
**NE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS 1328**

**Water System Information:**

Prime Station Code:	01S/11W-02B01 S	User ID:	4TH
FRDS Number:	1910090003	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340700.0 1180000.0	Precision:	Undefined
Source Name:	MONROVIA WELL 03		
System Number:	1910090		
System Name:	MONROVIA-CITY, WATER DEPT.		
Organization That Operates System:	415 SOUTH IVY AVENUE		
	MONROVIA, CA 91016		
Pop Served:	37545	Connections:	8359
Area Served:	MONROVIA		
Sample Collected:	04-JAN-11	Findings:	3.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-JAN-11	Findings:	3.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-FEB-11	Findings:	5. MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	01-MAR-11	Findings:	1.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-MAR-11	Findings:	7.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-APR-11	Findings:	0.96 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-APR-11	Findings:	7.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-APR-11	Findings:	410. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	05-APR-11	Findings:	7.9
Chemical:	PH, LABORATORY		
Sample Collected:	05-APR-11	Findings:	140. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	05-APR-11	Findings:	180. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	05-APR-11	Findings:	180. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	05-APR-11	Findings:	52. MG/L
Chemical:	CALCIUM		
Sample Collected:	05-APR-11	Findings:	13. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	05-APR-11	Findings:	12. MG/L
Chemical:	SODIUM		
Sample Collected:	05-APR-11	Findings:	1.6 MG/L
Chemical:	POTASSIUM		
Sample Collected:	05-APR-11	Findings:	19. MG/L
Chemical:	CHLORIDE		
Sample Collected:	05-APR-11	Findings:	26. MG/L
Chemical:	SULFATE		
Sample Collected:	05-APR-11	Findings:	0.44 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	05-APR-11	Findings:	260. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	05-APR-11	Findings:	0.85
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	05-APR-11	Findings:	7.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-APR-11	Findings:	0.11 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	05-APR-11	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	05-APR-11	Findings:	1600. MG/L
Chemical:	NITRATE + NITRITE (AS N)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	11-APR-11	Findings:	0.64 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11-APR-11	Findings:	7.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-MAY-11	Findings:	3.7 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-JUN-11	Findings:	0.68 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-JUN-11	Findings:	5.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-JUL-11	Findings:	0.69 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-JUL-11	Findings:	6.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-JUL-11	Findings:	5.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-AUG-11	Findings:	6. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-SEP-11	Findings:	6.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-OCT-11	Findings:	5.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-OCT-11	Findings:	5.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-NOV-11	Findings:	4. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-DEC-11	Findings:	5.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-JAN-12	Findings:	6.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-JAN-12	Findings:	8.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-FEB-12	Findings:	10. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-MAR-12	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-APR-12	Findings:	480. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03-APR-12	Findings:	7.5
Chemical:	PH, LABORATORY		
Sample Collected:	03-APR-12	Findings:	160. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	03-APR-12	Findings:	190. MG/L
Chemical:	BICARBONATE ALKALINITY		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03-APR-12	Findings:	210. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO <sub>3</sub>		
Sample Collected:	03-APR-12	Findings:	59. MG/L
Chemical:	CALCIUM		
Sample Collected:	03-APR-12	Findings:	15. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03-APR-12	Findings:	18. MG/L
Chemical:	SODIUM		
Sample Collected:	03-APR-12	Findings:	1.6 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03-APR-12	Findings:	27. MG/L
Chemical:	CHLORIDE		
Sample Collected:	03-APR-12	Findings:	33. MG/L
Chemical:	SULFATE		
Sample Collected:	03-APR-12	Findings:	0.34 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	03-APR-12	Findings:	300. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03-APR-12	Findings:	0.58
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	03-APR-12	Findings:	13. MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	03-APR-12	Findings:	0.18 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	03-APR-12	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	03-APR-12	Findings:	2900. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	03-APR-12	Findings:	0.58 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-APR-12	Findings:	13. MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	19-APR-12	Findings:	0.51 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	19-APR-12	Findings:	13. MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	01-MAY-12	Findings:	0.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-MAY-12	Findings:	11. MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	05-JUN-12	Findings:	0.83 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-JUN-12	Findings:	14. MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03-JUL-12	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-JUL-12	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-JUL-12	Findings:	1.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	16-JUL-12	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-AUG-12	Findings:	1.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-AUG-12	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-SEP-12	Findings:	1.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-SEP-12	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-OCT-12	Findings:	1.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-OCT-12	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-OCT-12	Findings:	1.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-OCT-12	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-NOV-12	Findings:	0.86 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-NOV-12	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-APR-13	Findings:	0.94 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-APR-13	Findings:	2.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11-APR-13	Findings:	32. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-MAY-13	Findings:	0.52 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07-MAY-13	Findings:	1.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-MAY-13	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08-MAY-13	Findings:	0.41 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	08-MAY-13	Findings:	1.6 PCI/L
Chemical:	URANIUM (PCI/L)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	08-MAY-13	Findings:	1.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08-MAY-13	Findings:	11. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	23-MAY-13	Findings:	500. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	23-MAY-13	Findings:	7.8
Chemical:	PH, LABORATORY		
Sample Collected:	23-MAY-13	Findings:	160. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	23-MAY-13	Findings:	200. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	23-MAY-13	Findings:	220. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	23-MAY-13	Findings:	60. MG/L
Chemical:	CALCIUM		
Sample Collected:	23-MAY-13	Findings:	16. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	23-MAY-13	Findings:	16. MG/L
Chemical:	SODIUM		
Sample Collected:	23-MAY-13	Findings:	1.8 MG/L
Chemical:	POTASSIUM		
Sample Collected:	23-MAY-13	Findings:	26. MG/L
Chemical:	CHLORIDE		
Sample Collected:	23-MAY-13	Findings:	34. MG/L
Chemical:	SULFATE		
Sample Collected:	23-MAY-13	Findings:	0.36 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	23-MAY-13	Findings:	310. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	23-MAY-13	Findings:	0.89
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	23-MAY-13	Findings:	17. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	23-MAY-13	Findings:	0.13 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	23-MAY-13	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	23-MAY-13	Findings:	3800. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	23-MAY-13	Findings:	2.3 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	23-MAY-13	Findings:	0.89 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	23-MAY-13	Findings:	9.5e-002 PCI/L
Chemical:	RADIUM 226 COUNTING ERROR		
Sample Collected:	23-MAY-13	Findings:	0.17 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	23-MAY-13	Findings:	2. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	23-MAY-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	23-MAY-13	Findings:	0.2 PCI/L
Chemical:	RADIUM 226 MDA95		
Sample Collected:	23-MAY-13	Findings:	0.35 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	23-MAY-13	Findings:	3. PCI/L
Chemical:	GROSS BETA MDA95		
Sample Collected:	04-JUN-13	Findings:	0.57 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04-JUN-13	Findings:	2.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-JUN-13	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-JUL-13	Findings:	0.82 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02-JUL-13	Findings:	3. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-JUL-13	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JUL-13	Findings:	0.61 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10-JUL-13	Findings:	3.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10-JUL-13	Findings:	17. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-AUG-13	Findings:	0.65 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06-AUG-13	Findings:	3.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-AUG-13	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-AUG-13	Findings:	5.8 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	03-SEP-13	Findings:	0.67 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03-SEP-13	Findings:	3.7 UG/L
Chemical:	TRICHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03-SEP-13	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-OCT-13	Findings:	0.83 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-OCT-13	Findings:	5.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-OCT-13	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-OCT-13	Findings:	0.78 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-OCT-13	Findings:	6.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11-OCT-13	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-OCT-13	Findings:	0.52 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-OCT-13	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-NOV-13	Findings:	0.63 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05-NOV-13	Findings:	5.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-NOV-13	Findings:	17. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-DEC-13	Findings:	0.86 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03-DEC-13	Findings:	6.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-DEC-13	Findings:	17. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-JAN-14	Findings:	0.75 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07-JAN-14	Findings:	6.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-JAN-14	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	31-JAN-14	Findings:	0.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	31-JAN-14	Findings:	6.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	31-JAN-14	Findings:	20. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-FEB-14	Findings:	0.64 UG/L
Chemical:	TETRACHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	04-FEB-14	Findings:	5.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-FEB-14	Findings:	20. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-MAR-14	Findings:	0.61 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04-MAR-14	Findings:	6.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-MAR-14	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-APR-14	Findings:	0.72 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-APR-14	Findings:	6.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-APR-14	Findings:	20. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-APR-14	Findings:	0.76 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09-APR-14	Findings:	8.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09-APR-14	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-MAY-14	Findings:	520. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	06-MAY-14	Findings:	8.
Chemical:	PH, LABORATORY		
Sample Collected:	06-MAY-14	Findings:	160. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	06-MAY-14	Findings:	190. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	06-MAY-14	Findings:	220. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	06-MAY-14	Findings:	63. MG/L
Chemical:	CALCIUM		
Sample Collected:	06-MAY-14	Findings:	16. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	06-MAY-14	Findings:	15. MG/L
Chemical:	SODIUM		
Sample Collected:	06-MAY-14	Findings:	1.8 MG/L
Chemical:	POTASSIUM		
Sample Collected:	06-MAY-14	Findings:	23. MG/L
Chemical:	CHLORIDE		
Sample Collected:	06-MAY-14	Findings:	33. MG/L
Chemical:	SULFATE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	06-MAY-14	Findings:	0.4 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	06-MAY-14	Findings:	310. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	06-MAY-14	Findings:	1.
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	06-MAY-14	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-MAY-14	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	06-MAY-14	Findings:	4700. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	06-MAY-14	Findings:	0.65 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06-MAY-14	Findings:	5.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-MAY-14	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-JUN-14	Findings:	0.87 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03-JUN-14	Findings:	6.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-JUN-14	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-JUL-14	Findings:	3.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-JUL-14	Findings:	17. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-JUL-14	Findings:	0.53 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07-JUL-14	Findings:	4.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-JUL-14	Findings:	17. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-AUG-14	Findings:	3.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-AUG-14	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-SEP-14	Findings:	3.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-SEP-14	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-OCT-14	Findings:	3.5 UG/L
Chemical:	TRICHLOROETHYLENE		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	06-OCT-14	Findings:	310. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07-OCT-14	Findings:	4. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-OCT-14	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-NOV-14	Findings:	3.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-NOV-14	Findings:	19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-DEC-14	Findings:	0.57 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-DEC-14	Findings:	4.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-DEC-14	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-JAN-15	Findings:	3.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-JAN-15	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	20-JAN-15	Findings:	4. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	20-JAN-15	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-FEB-15	Findings:	0.51 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03-FEB-15	Findings:	3.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-FEB-15	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-MAR-15	Findings:	0.53 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03-MAR-15	Findings:	3.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-MAR-15	Findings:	20. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-APR-15	Findings:	3.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-APR-15	Findings:	20. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-APR-15	Findings:	0.53 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07-APR-15	Findings:	4. UG/L
Chemical:	TRICHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	07-APR-15	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-MAY-15	Findings:	3.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-MAY-15	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-JUN-15	Findings:	0.53 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02-JUN-15	Findings:	3.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-JUN-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-JUL-15	Findings:	3.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-JUL-15	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-JUL-15	Findings:	3.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	15-JUL-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-AUG-15	Findings:	2.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-AUG-15	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-SEP-15	Findings:	2.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-SEP-15	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-OCT-15	Findings:	0.53 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06-OCT-15	Findings:	3. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-OCT-15	Findings:	20. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-OCT-15	Findings:	4.5 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	14-OCT-15	Findings:	1.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-OCT-15	Findings:	310. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	04-NOV-15	Findings:	4.5 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	04-NOV-15	Findings:	0.52 UG/L
Chemical:	TETRACHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	04-NOV-15	Findings:	2.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-NOV-15	Findings:	20. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-DEC-15	Findings:	5. MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	01-DEC-15	Findings:	3. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-DEC-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-JAN-16	Findings:	1.8 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	12-JAN-16	Findings:	3.6 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	12-JAN-16	Findings:	0.61 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12-JAN-16	Findings:	2.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-FEB-16	Findings:	3.3 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	02-FEB-16	Findings:	2.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-MAR-16	Findings:	3.6 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	01-MAR-16	Findings:	2.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-APR-16	Findings:	3.5 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	05-APR-16	Findings:	0.65 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05-APR-16	Findings:	6.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-APR-16	Findings:	3.5 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	12-APR-16	Findings:	0.34 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	12-APR-16	Findings:	1.7 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	12-APR-16	Findings:	2.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-MAY-16	Findings:	3.4 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	03-MAY-16	Findings:	3.3 UG/L
Chemical:	TRICHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	04-MAY-16	Findings:	470. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	04-MAY-16	Findings:	8.2
Chemical:	PH, LABORATORY		
Sample Collected:	04-MAY-16	Findings:	160. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	04-MAY-16	Findings:	190. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	04-MAY-16	Findings:	2. MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	04-MAY-16	Findings:	3.4 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	04-MAY-16	Findings:	220. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	04-MAY-16	Findings:	62. MG/L
Chemical:	CALCIUM		
Sample Collected:	04-MAY-16	Findings:	15. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	04-MAY-16	Findings:	15. MG/L
Chemical:	SODIUM		
Sample Collected:	04-MAY-16	Findings:	1.8 MG/L
Chemical:	POTASSIUM		
Sample Collected:	04-MAY-16	Findings:	23. MG/L
Chemical:	CHLORIDE		
Sample Collected:	04-MAY-16	Findings:	32. MG/L
Chemical:	SULFATE		
Sample Collected:	04-MAY-16	Findings:	0.37 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	04-MAY-16	Findings:	300. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	04-MAY-16	Findings:	1.2
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	04-MAY-16	Findings:	0.15 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	04-MAY-16	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	04-MAY-16	Findings:	3.4 MG/L
Chemical:	NITRATE + NITRITE (AS N)		

**C9  
NE  
1/2 - 1 Mile  
Higher**

**CA WELLS 1331**

**Water System Information:**

Prime Station Code:	01S/11W-02C03 S	User ID:	MET
FRDS Number:	1910212012	County:	Los Angeles
District Number:	15	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Abandoned
Source Lat/Long:	340700.0 1180000.0	Precision:	Undefined
Source Name:	JEFFRIES WELL 02 - ABANDONED		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

System Number: 1910212  
 System Name: SCWC-SOUTH ARCADIA  
 Organization That Operates System:  
     P.O. BOX 9016  
     SAN DIMAS, CA 91773  
 Pop Served: 23034  
 Area Served: Not Reported  
 Connections: 6980

**C10**  
**NE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS 22849**

**Water System Information:**

Prime Station Code: G19/090-VONTBLR	User ID: 4TH	
FRDS Number: 1910090006	County: Los Angeles	
District Number: 07	Station Type: COMB/WELL/AMBNT/MUN/INTAKE	
Water Type: Well/Groundwater	Well Status: Combined Treated	
Source Lat/Long: 340700.1 1180000.0	Precision: 1 Mile (One Minute)	
Source Name: WELL BLEND - TREATED		
System Number: 1910090		
System Name: MONROVIA-CITY, WATER DEPT.		
Organization That Operates System: 415 SOUTH IVY AVENUE MONROVIA, CA 91016		
Pop Served: 37545	Connections: 8359	
Area Served: MONROVIA		
Sample Collected: 29-MAY-12	Findings: 15. MG/L	
Chemical: NITRATE (AS NO3)		
Sample Collected: 05-JUN-12	Findings: 14. MG/L	
Chemical: NITRATE (AS NO3)		
Sample Collected: 12-JUN-12	Findings: 13. MG/L	
Chemical: NITRATE (AS NO3)		
Sample Collected: 19-JUN-12	Findings: 12. MG/L	
Chemical: NITRATE (AS NO3)		
Sample Collected: 26-JUN-12	Findings: 13. MG/L	
Chemical: NITRATE (AS NO3)		
Sample Collected: 03-JUL-12	Findings: 13. MG/L	
Chemical: NITRATE (AS NO3)		
Sample Collected: 03-JUL-12	Findings: 0.18 NTU	
Chemical: TURBIDITY, LABORATORY		
Sample Collected: 10-JUL-12	Findings: 13. MG/L	
Chemical: NITRATE (AS NO3)		
Sample Collected: 17-JUL-12	Findings: 13. MG/L	
Chemical: NITRATE (AS NO3)		
Sample Collected: 24-JUL-12	Findings: 14. MG/L	
Chemical: NITRATE (AS NO3)		
Sample Collected: 31-JUL-12	Findings: 13. MG/L	
Chemical: NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	07-AUG-12	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-AUG-12	Findings:	0.16 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	14-AUG-12	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-AUG-12	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	28-AUG-12	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-SEP-12	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-SEP-12	Findings:	0.18 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	11-SEP-12	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-SEP-12	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	25-SEP-12	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-OCT-12	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-OCT-12	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-OCT-12	Findings:	19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	23-OCT-12	Findings:	19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	30-OCT-12	Findings:	17. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-NOV-12	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-NOV-12	Findings:	0.12 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	13-NOV-12	Findings:	17. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	20-NOV-12	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	27-NOV-12	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-DEC-12	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-DEC-12	Findings:	0.14 NTU
Chemical:	TURBIDITY, LABORATORY		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	11-DEC-12	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-DEC-12	Findings:	12. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	26-DEC-12	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-JAN-13	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08-JAN-13	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-JAN-13	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-JAN-13	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	29-JAN-13	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-FEB-13	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-FEB-13	Findings:	0.16 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	12-FEB-13	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	19-FEB-13	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	26-FEB-13	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-MAR-13	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-MAR-13	Findings:	0.16 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	12-MAR-13	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	19-MAR-13	Findings:	17. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	26-MAR-13	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-APR-13	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-APR-13	Findings:	0.12 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	09-APR-13	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-APR-13	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	23-APR-13	Findings:	24. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	30-APR-13	Findings:	20. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-MAY-13	Findings:	2. TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	07-MAY-13	Findings:	20. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-MAY-13	Findings:	0.11 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	14-MAY-13	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-MAY-13	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	28-MAY-13	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-JUN-13	Findings:	2. TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	04-JUN-13	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-JUN-13	Findings:	0.11 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	11-JUN-13	Findings:	17. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-JUN-13	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	25-JUN-13	Findings:	17. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-JUL-13	Findings:	2. TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	02-JUL-13	Findings:	0.83 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-JUL-13	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-JUL-13	Findings:	0.14 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	09-JUL-13	Findings:	1.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09-JUL-13	Findings:	19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-JUL-13	Findings:	17. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	23-JUL-13	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	30-JUL-13	Findings:	17. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-AUG-13	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-AUG-13	Findings:	0.15 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	13-AUG-13	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	20-AUG-13	Findings:	17. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	27-AUG-13	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-SEP-13	Findings:	2. TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	03-SEP-13	Findings:	0.62 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03-SEP-13	Findings:	3.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-SEP-13	Findings:	20. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-SEP-13	Findings:	0.2 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	10-SEP-13	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-SEP-13	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	24-SEP-13	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-OCT-13	Findings:	2. TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	01-OCT-13	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08-OCT-13	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-OCT-13	Findings:	0.51 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	15-OCT-13	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-OCT-13	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	29-OCT-13	Findings:	0.64 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	29-OCT-13	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	05-NOV-13	Findings:	2. TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	05-NOV-13	Findings:	11. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-NOV-13	Findings:	0.69 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-NOV-13	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	19-NOV-13	Findings:	12. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	26-NOV-13	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-DEC-13	Findings:	0.53 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-DEC-13	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-DEC-13	Findings:	0.24 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	10-DEC-13	Findings:	17. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-DEC-13	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	23-DEC-13	Findings:	12. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	30-DEC-13	Findings:	1.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	30-DEC-13	Findings:	12. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-JAN-14	Findings:	12. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-JAN-14	Findings:	0.55 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	14-JAN-14	Findings:	0.78 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-JAN-14	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-JAN-14	Findings:	0.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	21-JAN-14	Findings:	12. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	28-JAN-14	Findings:	0.57 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	28-JAN-14	Findings:	12. MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	04-FEB-14	Findings:	1.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-FEB-14	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-FEB-14	Findings:	0.4 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	11-FEB-14	Findings:	0.74 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11-FEB-14	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-FEB-14	Findings:	0.55 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	18-FEB-14	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	25-FEB-14	Findings:	0.77 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	25-FEB-14	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-MAR-14	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-MAR-14	Findings:	0.96 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	11-MAR-14	Findings:	0.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11-MAR-14	Findings:	29. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-MAR-14	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	25-MAR-14	Findings:	0.61 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	25-MAR-14	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-APR-14	Findings:	0.88 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-APR-14	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-APR-14	Findings:	0.13 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	08-APR-14	Findings:	1.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08-APR-14	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-APR-14	Findings:	0.56 UG/L
Chemical:	TETRACHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	15-APR-14	Findings:	2.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	15-APR-14	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-APR-14	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-APR-14	Findings:	0.63 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	29-APR-14	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	29-APR-14	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-MAY-14	Findings:	1.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-MAY-14	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-MAY-14	Findings:	0.77 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	13-MAY-14	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	20-MAY-14	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	20-MAY-14	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	27-MAY-14	Findings:	0.71 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	27-MAY-14	Findings:	5. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	27-MAY-14	Findings:	19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	30-MAY-14	Findings:	1.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-JUN-14	Findings:	3. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-JUN-14	Findings:	24. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-JUN-14	Findings:	0.2 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	10-JUN-14	Findings:	0.83 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10-JUN-14	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-JUN-14	Findings:	0.81 UG/L
Chemical:	TRICHLOROETHYLENE		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	17-JUN-14	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	24-JUN-14	Findings:	1.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	24-JUN-14	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-JUL-14	Findings:	0.87 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-JUL-14	Findings:	19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08-JUL-14	Findings:	0.82 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08-JUL-14	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-JUL-14	Findings:	0.86 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	15-JUL-14	Findings:	19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-JUL-14	Findings:	0.83 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	22-JUL-14	Findings:	20. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	29-JUL-14	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	29-JUL-14	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-AUG-14	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-AUG-14	Findings:	19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-AUG-14	Findings:	1.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-AUG-14	Findings:	19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	19-AUG-14	Findings:	0.98 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	19-AUG-14	Findings:	19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	26-AUG-14	Findings:	1.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	26-AUG-14	Findings:	19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-SEP-14	Findings:	2. TON
Chemical:	ODOR THRESHOLD @ 60 C		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	02-SEP-14	Findings:	1.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-SEP-14	Findings:	19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-SEP-14	Findings:	0.12 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	09-SEP-14	Findings:	1.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09-SEP-14	Findings:	19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-SEP-14	Findings:	1.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	16-SEP-14	Findings:	19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	23-SEP-14	Findings:	1.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	23-SEP-14	Findings:	19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	30-SEP-14	Findings:	0.86 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	30-SEP-14	Findings:	20. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-OCT-14	Findings:	2. TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	07-OCT-14	Findings:	1.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-OCT-14	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-OCT-14	Findings:	0.83 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-OCT-14	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-OCT-14	Findings:	1.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	21-OCT-14	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	28-OCT-14	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	28-OCT-14	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-NOV-14	Findings:	1.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-NOV-14	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10-NOV-14	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10-NOV-14	Findings:	20. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-NOV-14	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	18-NOV-14	Findings:	19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	25-NOV-14	Findings:	1.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	25-NOV-14	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-DEC-14	Findings:	1.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-DEC-14	Findings:	19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-DEC-14	Findings:	1.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09-DEC-14	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-DEC-14	Findings:	0.65 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	15-DEC-14	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	23-DEC-14	Findings:	1.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	23-DEC-14	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	29-DEC-14	Findings:	1.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	29-DEC-14	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-JAN-15	Findings:	1.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-JAN-15	Findings:	25. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-JAN-15	Findings:	1.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	13-JAN-15	Findings:	23. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	20-JAN-15	Findings:	1.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	20-JAN-15	Findings:	23. MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	27-JAN-15	Findings:	1.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	27-JAN-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-FEB-15	Findings:	1.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-FEB-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-FEB-15	Findings:	1.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10-FEB-15	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-FEB-15	Findings:	1.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	17-FEB-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	24-FEB-15	Findings:	0.84 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	24-FEB-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-MAR-15	Findings:	2. TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	03-MAR-15	Findings:	1.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-MAR-15	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-MAR-15	Findings:	1.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10-MAR-15	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-MAR-15	Findings:	1.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	17-MAR-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	24-MAR-15	Findings:	1.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	24-MAR-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	31-MAR-15	Findings:	1.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	31-MAR-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-APR-15	Findings:	2. TON
Chemical:	ODOR THRESHOLD @ 60 C		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	07-APR-15	Findings:	1.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-APR-15	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-APR-15	Findings:	1.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-APR-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-APR-15	Findings:	1.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	21-APR-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	28-APR-15	Findings:	1.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	28-APR-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-MAY-15	Findings:	1.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-MAY-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-MAY-15	Findings:	0.12 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	12-MAY-15	Findings:	1.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-MAY-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	19-MAY-15	Findings:	1.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	19-MAY-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	26-MAY-15	Findings:	2. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	26-MAY-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-JUN-15	Findings:	2. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-JUN-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-JUN-15	Findings:	2.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09-JUN-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-JUN-15	Findings:	1.8 UG/L
Chemical:	TRICHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	16-JUN-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	23-JUN-15	Findings:	2.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	23-JUN-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	30-JUN-15	Findings:	1.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	30-JUN-15	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-JUL-15	Findings:	2. TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	07-JUL-15	Findings:	2.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-JUL-15	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-JUL-15	Findings:	2.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-JUL-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-JUL-15	Findings:	2.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	22-JUL-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	28-JUL-15	Findings:	1.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	28-JUL-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-AUG-15	Findings:	2. TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	04-AUG-15	Findings:	1.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-AUG-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-AUG-15	Findings:	1.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11-AUG-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-AUG-15	Findings:	1.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	18-AUG-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	25-AUG-15	Findings:	1.6 UG/L
Chemical:	TRICHLOROETHYLENE		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	25-AUG-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-SEP-15	Findings:	1.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-SEP-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08-SEP-15	Findings:	1.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08-SEP-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-SEP-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-SEP-15	Findings:	1.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	22-SEP-15	Findings:	1.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	22-SEP-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	29-SEP-15	Findings:	1.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	29-SEP-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-OCT-15	Findings:	2. TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	06-OCT-15	Findings:	1.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-OCT-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-OCT-15	Findings:	0.11 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	13-OCT-15	Findings:	0.67 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	13-OCT-15	Findings:	24. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	20-OCT-15	Findings:	1.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	20-OCT-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	26-OCT-15	Findings:	0.81 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	27-OCT-15	Findings:	23. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-NOV-15	Findings:	1.1 UG/L
Chemical:	TRICHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	04-NOV-15	Findings:	2. TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	04-NOV-15	Findings:	5.4 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	04-NOV-15	Findings:	24. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-NOV-15	Findings:	0.11 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	10-NOV-15	Findings:	4.5 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	10-NOV-15	Findings:	0.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10-NOV-15	Findings:	20. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-NOV-15	Findings:	5.1 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	17-NOV-15	Findings:	1.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	17-NOV-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	23-NOV-15	Findings:	5.1 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	23-NOV-15	Findings:	1.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	23-NOV-15	Findings:	23. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-DEC-15	Findings:	2. TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	01-DEC-15	Findings:	4.6 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	01-DEC-15	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-DEC-15	Findings:	20. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-DEC-15	Findings:	0.11 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	08-DEC-15	Findings:	4.9 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	08-DEC-15	Findings:	1.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08-DEC-15	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-DEC-15	Findings:	4.5 MG/L
Chemical:	NITRATE (AS N)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	15-DEC-15	Findings:	1.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	15-DEC-15	Findings:	20. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-DEC-15	Findings:	3.5 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	21-DEC-15	Findings:	0.55 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	21-DEC-15	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	29-DEC-15	Findings:	3.6 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	29-DEC-15	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-JAN-16	Findings:	4.3 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	04-JAN-16	Findings:	0.11 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	12-JAN-16	Findings:	3.5 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	12-JAN-16	Findings:	0.61 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	19-JAN-16	Findings:	4.7 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	19-JAN-16	Findings:	0.82 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	26-JAN-16	Findings:	4.7 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	26-JAN-16	Findings:	0.59 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-FEB-16	Findings:	2. TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	02-FEB-16	Findings:	4.2 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	02-FEB-16	Findings:	0.83 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-FEB-16	Findings:	0.11 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	09-FEB-16	Findings:	4.9 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	09-FEB-16	Findings:	0.57 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	16-FEB-16	Findings:	4.9 MG/L
Chemical:	NITRATE (AS N)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	16-FEB-16	Findings:	0.65 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-MAR-16	Findings:	0.93 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08-MAR-16	Findings:	4.7 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	08-MAR-16	Findings:	0.78 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	15-MAR-16	Findings:	4.5 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	15-MAR-16	Findings:	0.83 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	22-MAR-16	Findings:	5. MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	22-MAR-16	Findings:	0.79 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	29-MAR-16	Findings:	4.9 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	29-MAR-16	Findings:	0.59 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-APR-16	Findings:	5.2 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	05-APR-16	Findings:	0.78 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-APR-16	Findings:	4.8 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	12-APR-16	Findings:	0.84 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	19-APR-16	Findings:	6. MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	19-APR-16	Findings:	1.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	26-APR-16	Findings:	5.8 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	26-APR-16	Findings:	1.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-MAY-16	Findings:	5.5 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	03-MAY-16	Findings:	1.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-MAY-16	Findings:	0.15 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	10-MAY-16	Findings:	5.2 MG/L
Chemical:	NITRATE (AS N)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10-MAY-16	Findings:	0.81 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	17-MAY-16	Findings:	5.5 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	17-MAY-16	Findings:	1.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	25-MAY-16	Findings:	5. MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	25-MAY-16	Findings:	1.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	31-MAY-16	Findings:	6.3 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	31-MAY-16	Findings:	1.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-JUN-16	Findings:	6.1 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	14-JUN-16	Findings:	1.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	21-JUN-16	Findings:	4.9 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	21-JUN-16	Findings:	1.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	28-JUN-16	Findings:	5.8 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	28-JUN-16	Findings:	1.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-JAN-11	Findings:	0.64 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-JAN-11	Findings:	12. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-JAN-11	Findings:	0.2 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	11-JAN-11	Findings:	0.64 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11-JAN-11	Findings:	11. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-JAN-11	Findings:	12. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-FEB-11	Findings:	6.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-FEB-11	Findings:	0.13 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	08-FEB-11	Findings:	5.5 MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	15-FEB-11	Findings:	6.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-FEB-11	Findings:	8.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-MAR-11	Findings:	8.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-MAR-11	Findings:	0.28 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	08-MAR-11	Findings:	9.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-MAR-11	Findings:	8.7 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-MAR-11	Findings:	9.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	29-MAR-11	Findings:	9. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-APR-11	Findings:	8.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-APR-11	Findings:	0.12 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	12-APR-11	Findings:	11. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	19-APR-11	Findings:	8.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	26-APR-11	Findings:	8.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-MAY-11	Findings:	7.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-MAY-11	Findings:	0.12 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	10-MAY-11	Findings:	8.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-MAY-11	Findings:	8.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	24-MAY-11	Findings:	6.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	31-MAY-11	Findings:	8.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-JUN-11	Findings:	7.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-JUN-11	Findings:	0.11 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	14-JUN-11	Findings:	8.1 MG/L
Chemical:	NITRATE (AS NO3)		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	21-JUN-11	Findings:	7.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	28-JUN-11	Findings:	6.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-JUL-11	Findings:	8.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-JUL-11	Findings:	0.17 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	12-JUL-11	Findings:	5.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	19-JUL-11	Findings:	7.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	26-JUL-11	Findings:	7.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-AUG-11	Findings:	7.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-AUG-11	Findings:	0.16 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	09-AUG-11	Findings:	7.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-AUG-11	Findings:	7.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	23-AUG-11	Findings:	7.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	30-AUG-11	Findings:	6.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-SEP-11	Findings:	8. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-SEP-11	Findings:	7.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	20-SEP-11	Findings:	8.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	27-SEP-11	Findings:	9.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-OCT-11	Findings:	7.7 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-OCT-11	Findings:	0.2 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	11-OCT-11	Findings:	9.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-OCT-11	Findings:	9.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	25-OCT-11	Findings:	10. MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	01-NOV-11	Findings:	7.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-NOV-11	Findings:	0.16 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	08-NOV-11	Findings:	9.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-NOV-11	Findings:	9. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-NOV-11	Findings:	8.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	29-NOV-11	Findings:	9.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-DEC-11	Findings:	4.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-DEC-11	Findings:	0.25 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	13-DEC-11	Findings:	9.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	20-DEC-11	Findings:	8.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	27-DEC-11	Findings:	9. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-JAN-12	Findings:	9.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-JAN-12	Findings:	0.19 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	10-JAN-12	Findings:	10. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-JAN-12	Findings:	12. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	24-JAN-12	Findings:	11. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	31-JAN-12	Findings:	11. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-FEB-12	Findings:	11. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-FEB-12	Findings:	11. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-FEB-12	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	28-FEB-12	Findings:	11. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-MAR-12	Findings:	11. MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	06-MAR-12	Findings:	0.14 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	13-MAR-12	Findings:	11. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	20-MAR-12	Findings:	11. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	27-MAR-12	Findings:	10. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-APR-12	Findings:	11. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-APR-12	Findings:	0.13 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	10-APR-12	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-APR-12	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	24-APR-12	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-MAY-12	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-MAY-12	Findings:	0.12 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	08-MAY-12	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-MAY-12	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-MAY-12	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		

**C11  
NE  
1/2 - 1 Mile  
Higher**

**CA WELLS 1332**

**Water System Information:**

Prime Station Code:	01S/11W-02C04 S	User ID:	MET
FRDS Number:	1910212011	County:	Los Angeles
District Number:	15	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Inactive Raw
Source Lat/Long:	340700.0 1180000.0	Precision:	Undefined
Source Name:	JEFFRIES WELL 01 - INACTIVE		
System Number:	1910212		
System Name:	SCWC-SOUTH ARCADIA		
Organization That Operates System:	P.O. BOX 9016 SAN DIMAS, CA 91773		
Pop Served:	23034	Connections:	6980
Area Served:	Not Reported		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**B12**  
**North**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      1330**

**Water System Information:**

Prime Station Code:	01S/11W-02C02 S	User ID:	MET
FRDS Number:	1910212014	County:	Los Angeles
District Number:	15	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340710.0 1180018.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	JEFFRIES WELL 04		
System Number:	1910212		
System Name:	SCWC-SOUTH ARCADIA		
Organization That Operates System:	P.O. BOX 9016 SAN DIMAS, CA 91773		
Pop Served:	23034	Connections:	6980
Area Served:	Not Reported		
Sample Collected:	17-AUG-11	Findings:	3.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-AUG-12	Findings:	0.57 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	16-AUG-12	Findings:	3.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-AUG-12	Findings:	21.1 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	21-AUG-12	Findings:	500. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	21-AUG-12	Findings:	8.
Chemical:	PH, FIELD		
Sample Collected:	21-AUG-12	Findings:	8.
Chemical:	PH, LABORATORY		
Sample Collected:	21-AUG-12	Findings:	190. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	21-AUG-12	Findings:	230. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	21-AUG-12	Findings:	200. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	21-AUG-12	Findings:	54. MG/L
Chemical:	CALCIUM		
Sample Collected:	21-AUG-12	Findings:	16. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	21-AUG-12	Findings:	20. MG/L
Chemical:	SODIUM		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	21-AUG-12	Findings:	1.5 MG/L
Chemical:	POTASSIUM		
Sample Collected:	21-AUG-12	Findings:	14. MG/L
Chemical:	CHLORIDE		
Sample Collected:	21-AUG-12	Findings:	25. MG/L
Chemical:	SULFATE		
Sample Collected:	21-AUG-12	Findings:	0.83 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	21-AUG-12	Findings:	290. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	21-AUG-12	Findings:	1.2
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	21-AUG-12	Findings:	12. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-AUG-12	Findings:	0.16 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	21-AUG-12	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	14-AUG-13	Findings:	260. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	14-AUG-13	Findings:	3.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	28-AUG-14	Findings:	3.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	28-AUG-14	Findings:	240. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	14-AUG-15	Findings:	0.593 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	14-AUG-15	Findings:	0.2 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	14-AUG-15	Findings:	0.14 PCI/L
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.		
Sample Collected:	14-AUG-15	Findings:	0.47 PCI/L
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		
Sample Collected:	14-AUG-15	Findings:	0.45 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	14-AUG-15	Findings:	0.16 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	14-AUG-15	Findings:	4.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-AUG-15	Findings:	1.e-002 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	17-AUG-15	Findings:	410. US
Chemical:	SPECIFIC CONDUCTANCE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	17-AUG-15	Findings:	7.87
Chemical:	PH, LABORATORY		
Sample Collected:	17-AUG-15	Findings:	130. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	17-AUG-15	Findings:	160. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	17-AUG-15	Findings:	170. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	17-AUG-15	Findings:	48. MG/L
Chemical:	CALCIUM		
Sample Collected:	17-AUG-15	Findings:	11. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	17-AUG-15	Findings:	15. MG/L
Chemical:	SODIUM		
Sample Collected:	17-AUG-15	Findings:	1.6 MG/L
Chemical:	POTASSIUM		
Sample Collected:	17-AUG-15	Findings:	22. MG/L
Chemical:	CHLORIDE		
Sample Collected:	17-AUG-15	Findings:	38. MG/L
Chemical:	SULFATE		
Sample Collected:	17-AUG-15	Findings:	0.44 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	17-AUG-15	Findings:	260. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	17-AUG-15	Findings:	0.24
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	17-AUG-15	Findings:	3.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-AUG-15	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		

**B13  
North  
1/2 - 1 Mile  
Higher**

**FED USGS**

**USGS40000141452**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340711118002001		
Monloc name:	001N011W35L001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070105	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.1197298
Longitude:	-118.006455	Sourcemap scale:	24000



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

**14  
SW  
1/2 - 1 Mile  
Lower**

**FED USGS      USGS40000141119**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-340618118005501		
Monloc name:	001S011W11C004S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070105	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.1050082
Longitude:	-118.0161775	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	610
Welldepth units:	ft	Wellholedepth:	610
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

**D15  
SSE  
1/2 - 1 Mile  
Lower**

**CA WELLS      1335**

**Water System Information:**

Prime Station Code:	01S/11W-02G01 S	User ID:	4TH
FRDS Number:	1910090002	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340600.0 1180000.0	Precision:	Undefined
Source Name:	MONROVIA WELL 02		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

System Number:	1910090		
System Name:	MONROVIA-CITY, WATER DEPT.		
Organization That Operates System:	415 SOUTH IVY AVENUE MONROVIA, CA 91016		
Pop Served:	37545	Connections:	8359
Area Served:	MONROVIA		
Sample Collected:	09-APR-13	Findings:	0.57 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	09-APR-13	Findings:	10. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09-APR-13	Findings:	33. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-MAY-13	Findings:	0.65 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07-MAY-13	Findings:	9.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-MAY-13	Findings:	33. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	23-MAY-13	Findings:	640. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	23-MAY-13	Findings:	7.7
Chemical:	PH, LABORATORY		
Sample Collected:	23-MAY-13	Findings:	210. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	23-MAY-13	Findings:	260. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	23-MAY-13	Findings:	280. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	23-MAY-13	Findings:	78. MG/L
Chemical:	CALCIUM		
Sample Collected:	23-MAY-13	Findings:	22. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	23-MAY-13	Findings:	19. MG/L
Chemical:	SODIUM		
Sample Collected:	23-MAY-13	Findings:	2.1 MG/L
Chemical:	POTASSIUM		
Sample Collected:	23-MAY-13	Findings:	28. MG/L
Chemical:	CHLORIDE		
Sample Collected:	23-MAY-13	Findings:	41. MG/L
Chemical:	SULFATE		
Sample Collected:	23-MAY-13	Findings:	0.31 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	23-MAY-13	Findings:	390. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	23-MAY-13	Findings:	1.
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	23-MAY-13	Findings:	40. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	23-MAY-13	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	23-MAY-13	Findings:	9100. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	23-MAY-13	Findings:	2.6 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	23-MAY-13	Findings:	1.1 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	23-MAY-13	Findings:	0.26 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	23-MAY-13	Findings:	4. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	23-MAY-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	23-MAY-13	Findings:	0.39 PCI/L
Chemical:	RADIUM 226 MDA95		
Sample Collected:	23-MAY-13	Findings:	0.56 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	23-MAY-13	Findings:	0.99 PCI/L
Chemical:	GROSS BETA MDA95		
Sample Collected:	04-JUN-13	Findings:	0.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04-JUN-13	Findings:	11. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-JUN-13	Findings:	34. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-JUL-13	Findings:	0.78 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02-JUL-13	Findings:	12. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-JUL-13	Findings:	34. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-JUL-13	Findings:	4.1 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	10-JUL-13	Findings:	0.68 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10-JUL-13	Findings:	0.59 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	10-JUL-13	Findings:	13. UG/L
Chemical:	TRICHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10-JUL-13	Findings:	35. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-AUG-13	Findings:	0.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06-AUG-13	Findings:	14. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-AUG-13	Findings:	35. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-AUG-13	Findings:	3.6 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	03-SEP-13	Findings:	0.74 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03-SEP-13	Findings:	13. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-SEP-13	Findings:	36. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-SEP-13	Findings:	4.5 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	01-OCT-13	Findings:	0.67 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-OCT-13	Findings:	14. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-OCT-13	Findings:	38. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-OCT-13	Findings:	4.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	11-OCT-13	Findings:	0.65 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-OCT-13	Findings:	0.79 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	11-OCT-13	Findings:	16. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11-OCT-13	Findings:	47. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-OCT-13	Findings:	5.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	05-NOV-13	Findings:	11. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-NOV-13	Findings:	41. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-DEC-13	Findings:	0.63 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03-DEC-13	Findings:	12. UG/L
Chemical:	TRICHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03-DEC-13	Findings:	40. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-DEC-13	Findings:	4.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	07-JAN-14	Findings:	10. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-JAN-14	Findings:	58. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-JAN-14	Findings:	6.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	31-JAN-14	Findings:	0.66 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	31-JAN-14	Findings:	11. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	31-JAN-14	Findings:	57. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	31-JAN-14	Findings:	5.7 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	04-FEB-14	Findings:	9. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-FEB-14	Findings:	60. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-FEB-14	Findings:	5.7 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	04-MAR-14	Findings:	0.63 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04-MAR-14	Findings:	11. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-MAR-14	Findings:	57. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-MAR-14	Findings:	5.8 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	02-APR-14	Findings:	0.55 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02-APR-14	Findings:	10. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-APR-14	Findings:	57. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-APR-14	Findings:	5.9 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	09-APR-14	Findings:	0.69 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	09-APR-14	Findings:	0.199 PCI/L
Chemical:	RADIUM 228 MDA95		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	09-APR-14	Findings:	0.151 PCI/L
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.		
Sample Collected:	09-APR-14	Findings:	0.363 PCI/L
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		
Sample Collected:	09-APR-14	Findings:	4.49 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09-APR-14	Findings:	0.342 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09-APR-14	Findings:	0.77 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	09-APR-14	Findings:	11. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09-APR-14	Findings:	59. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-APR-14	Findings:	4.8 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	09-APR-14	Findings:	1.6e-002 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	06-MAY-14	Findings:	730. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	06-MAY-14	Findings:	7.8
Chemical:	PH, LABORATORY		
Sample Collected:	06-MAY-14	Findings:	210. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	06-MAY-14	Findings:	260. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	06-MAY-14	Findings:	320. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	06-MAY-14	Findings:	86. MG/L
Chemical:	CALCIUM		
Sample Collected:	06-MAY-14	Findings:	26. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	06-MAY-14	Findings:	18. MG/L
Chemical:	SODIUM		
Sample Collected:	06-MAY-14	Findings:	2.2 MG/L
Chemical:	POTASSIUM		
Sample Collected:	06-MAY-14	Findings:	29. MG/L
Chemical:	CHLORIDE		
Sample Collected:	06-MAY-14	Findings:	42. MG/L
Chemical:	SULFATE		
Sample Collected:	06-MAY-14	Findings:	0.32 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	06-MAY-14	Findings:	8.3 UG/L
Chemical:	TRICHLOROETHYLENE		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	06-MAY-14	Findings:	440. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	06-MAY-14	Findings:	1.2
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	06-MAY-14	Findings:	58. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-MAY-14	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	06-MAY-14	Findings:	13000. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	06-MAY-14	Findings:	5.8 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	03-JUN-14	Findings:	0.58 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03-JUN-14	Findings:	10. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-JUN-14	Findings:	58. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-JUN-14	Findings:	6.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	01-JUL-14	Findings:	0.53 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-JUL-14	Findings:	8.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-JUL-14	Findings:	60. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-JUL-14	Findings:	6.5 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	07-JUL-14	Findings:	1.3 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	07-JUL-14	Findings:	0.61 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07-JUL-14	Findings:	0.84 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	07-JUL-14	Findings:	12. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-JUL-14	Findings:	60. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-JUL-14	Findings:	5.8 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	05-AUG-14	Findings:	0.53 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05-AUG-14	Findings:	8.4 UG/L
Chemical:	TRICHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	05-AUG-14	Findings:	61. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-AUG-14	Findings:	5.9 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	02-SEP-14	Findings:	0.59 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02-SEP-14	Findings:	8.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-SEP-14	Findings:	61. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-SEP-14	Findings:	6.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	06-OCT-14	Findings:	460. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07-OCT-14	Findings:	7.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-OCT-14	Findings:	60. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-OCT-14	Findings:	5.8 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	04-NOV-14	Findings:	6.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-NOV-14	Findings:	61. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-NOV-14	Findings:	6.8 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	01-DEC-14	Findings:	6.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-DEC-14	Findings:	59. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-DEC-14	Findings:	6.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	06-JAN-15	Findings:	4.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-JAN-15	Findings:	59. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-JAN-15	Findings:	5.3 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	20-JAN-15	Findings:	5.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	20-JAN-15	Findings:	61. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	20-JAN-15	Findings:	5.5 UG/L
Chemical:	PERCHLORATE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03-FEB-15	Findings:	5.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-FEB-15	Findings:	61. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-FEB-15	Findings:	6.1 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	03-MAR-15	Findings:	6.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-MAR-15	Findings:	59. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-MAR-15	Findings:	6. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	01-APR-15	Findings:	4.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-APR-15	Findings:	54. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-APR-15	Findings:	5.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	07-APR-15	Findings:	5.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-APR-15	Findings:	62. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-APR-15	Findings:	6.9 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	05-MAY-15	Findings:	4.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-MAY-15	Findings:	61. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-MAY-15	Findings:	6.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	02-JUN-15	Findings:	5. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-JUN-15	Findings:	64. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-JUN-15	Findings:	6.5 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	07-JUL-15	Findings:	4.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-JUL-15	Findings:	61. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-JUL-15	Findings:	6.8 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	15-JUL-15	Findings:	4.4 UG/L
Chemical:	TRICHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	15-JUL-15	Findings:	62. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-JUL-15	Findings:	5.3 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	04-AUG-15	Findings:	3.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-AUG-15	Findings:	60. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-AUG-15	Findings:	6.1 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	01-SEP-15	Findings:	3.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-SEP-15	Findings:	60. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-SEP-15	Findings:	6.3 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	06-OCT-15	Findings:	3.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-OCT-15	Findings:	59. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-OCT-15	Findings:	6.5 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	14-OCT-15	Findings:	13. MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	14-OCT-15	Findings:	1.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-OCT-15	Findings:	400. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	14-OCT-15	Findings:	5.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	04-NOV-15	Findings:	14. MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	04-NOV-15	Findings:	3.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-NOV-15	Findings:	61. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-NOV-15	Findings:	6.7 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	01-DEC-15	Findings:	14. MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	01-DEC-15	Findings:	3.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-DEC-15	Findings:	64. MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	01-DEC-15	Findings:	6.5 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	04-JAN-16	Findings:	5.5 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	04-JAN-16	Findings:	1.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04-JAN-16	Findings:	2. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-JAN-16	Findings:	4.6 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	12-JAN-16	Findings:	1.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12-JAN-16	Findings:	2. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-FEB-16	Findings:	9.1 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	02-FEB-16	Findings:	0.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02-FEB-16	Findings:	2.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-MAR-16	Findings:	14. MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	01-MAR-16	Findings:	3.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-MAR-16	Findings:	5.3 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	05-APR-16	Findings:	14. MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	05-APR-16	Findings:	3.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-APR-16	Findings:	6.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	12-APR-16	Findings:	14. MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	12-APR-16	Findings:	0.32 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	12-APR-16	Findings:	7.1 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	12-APR-16	Findings:	3.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-APR-16	Findings:	5.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	03-MAY-16	Findings:	12. MG/L
Chemical:	NITRATE (AS N)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03-MAY-16	Findings:	0.63 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03-MAY-16	Findings:	2.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-MAY-16	Findings:	4.7 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	04-MAY-16	Findings:	660. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	04-MAY-16	Findings:	8.1
Chemical:	PH, LABORATORY		
Sample Collected:	04-MAY-16	Findings:	210. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO <sub>3</sub>		
Sample Collected:	04-MAY-16	Findings:	250. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	04-MAY-16	Findings:	2. MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	04-MAY-16	Findings:	12. MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	04-MAY-16	Findings:	320. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO <sub>3</sub>		
Sample Collected:	04-MAY-16	Findings:	88. MG/L
Chemical:	CALCIUM		
Sample Collected:	04-MAY-16	Findings:	25. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	04-MAY-16	Findings:	17. MG/L
Chemical:	SODIUM		
Sample Collected:	04-MAY-16	Findings:	2.2 MG/L
Chemical:	POTASSIUM		
Sample Collected:	04-MAY-16	Findings:	31. MG/L
Chemical:	CHLORIDE		
Sample Collected:	04-MAY-16	Findings:	42. MG/L
Chemical:	SULFATE		
Sample Collected:	04-MAY-16	Findings:	0.35 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	04-MAY-16	Findings:	420. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	04-MAY-16	Findings:	1.5
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	04-MAY-16	Findings:	0.11 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	04-MAY-16	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	04-MAY-16	Findings:	12. MG/L
Chemical:	NITRATE + NITRITE (AS N)		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	04-JAN-11	Findings:	0.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04-JAN-11	Findings:	2.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-JAN-11	Findings:	19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-JAN-11	Findings:	0.81 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05-JAN-11	Findings:	1.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-JAN-11	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-FEB-11	Findings:	4.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-FEB-11	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-MAR-11	Findings:	0.62 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-MAR-11	Findings:	3.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-MAR-11	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-APR-11	Findings:	0.57 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05-APR-11	Findings:	3.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-APR-11	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-APR-11	Findings:	490. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	05-APR-11	Findings:	7.9
Chemical:	PH, LABORATORY		
Sample Collected:	05-APR-11	Findings:	170. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	05-APR-11	Findings:	210. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	05-APR-11	Findings:	210. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	05-APR-11	Findings:	59. MG/L
Chemical:	CALCIUM		
Sample Collected:	05-APR-11	Findings:	16. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	05-APR-11	Findings:	15. MG/L
Chemical:	SODIUM		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	05-APR-11	Findings:	1.9 MG/L
Chemical:	POTASSIUM		
Sample Collected:	05-APR-11	Findings:	22. MG/L
Chemical:	CHLORIDE		
Sample Collected:	05-APR-11	Findings:	31. MG/L
Chemical:	SULFATE		
Sample Collected:	05-APR-11	Findings:	0.38 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	05-APR-11	Findings:	300. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	05-APR-11	Findings:	0.98
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	05-APR-11	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-APR-11	Findings:	0.16 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	05-APR-11	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	05-APR-11	Findings:	3400. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	11-APR-11	Findings:	1.8 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	11-APR-11	Findings:	0.51 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-APR-11	Findings:	2.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11-APR-11	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-MAY-11	Findings:	2.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-MAY-11	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-JUN-11	Findings:	4.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-JUN-11	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-JUL-11	Findings:	4.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-JUL-11	Findings:	17. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-JUL-11	Findings:	4.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	22-JUL-11	Findings:	17. MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	02-AUG-11	Findings:	3.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-AUG-11	Findings:	17. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-SEP-11	Findings:	4.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-SEP-11	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-OCT-11	Findings:	4.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-OCT-11	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-OCT-11	Findings:	5. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-OCT-11	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-OCT-11	Findings:	1.2 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	01-NOV-11	Findings:	2.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-NOV-11	Findings:	23. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-DEC-11	Findings:	2.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-DEC-11	Findings:	26. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-JAN-12	Findings:	2.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-JAN-12	Findings:	28. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-JAN-12	Findings:	2.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-JAN-12	Findings:	29. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-FEB-12	Findings:	2.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-FEB-12	Findings:	28. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-MAR-12	Findings:	6.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-MAR-12	Findings:	29. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-APR-12	Findings:	720. US
Chemical:	SPECIFIC CONDUCTANCE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03-APR-12	Findings:	7.4
Chemical:	PH, LABORATORY		
Sample Collected:	03-APR-12	Findings:	250. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	03-APR-12	Findings:	310. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	03-APR-12	Findings:	340. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	03-APR-12	Findings:	91. MG/L
Chemical:	CALCIUM		
Sample Collected:	03-APR-12	Findings:	27. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03-APR-12	Findings:	26. MG/L
Chemical:	SODIUM		
Sample Collected:	03-APR-12	Findings:	2.2 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03-APR-12	Findings:	34. MG/L
Chemical:	CHLORIDE		
Sample Collected:	03-APR-12	Findings:	45. MG/L
Chemical:	SULFATE		
Sample Collected:	03-APR-12	Findings:	0.26 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	03-APR-12	Findings:	460. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03-APR-12	Findings:	0.84
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	03-APR-12	Findings:	31. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-APR-12	Findings:	0.15 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	03-APR-12	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	03-APR-12	Findings:	7100. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	03-APR-12	Findings:	0.55 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03-APR-12	Findings:	3.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-APR-12	Findings:	31. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	19-APR-12	Findings:	6.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	19-APR-12	Findings:	24. MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	01-MAY-12	Findings:	0.56 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-MAY-12	Findings:	7.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-MAY-12	Findings:	24. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-JUN-12	Findings:	0.54 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05-JUN-12	Findings:	6.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-JUN-12	Findings:	24. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-JUL-12	Findings:	0.55 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03-JUL-12	Findings:	7.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-JUL-12	Findings:	25. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-JUL-12	Findings:	0.69 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	16-JUL-12	Findings:	0.52 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	16-JUL-12	Findings:	8.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	16-JUL-12	Findings:	27. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-AUG-12	Findings:	0.56 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07-AUG-12	Findings:	8.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-AUG-12	Findings:	26. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-SEP-12	Findings:	0.65 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04-SEP-12	Findings:	9.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-SEP-12	Findings:	27. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-OCT-12	Findings:	0.62 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02-OCT-12	Findings:	8.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-OCT-12	Findings:	29. MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03-OCT-12	Findings:	0.62 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03-OCT-12	Findings:	8.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-OCT-12	Findings:	29. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-NOV-12	Findings:	4.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-NOV-12	Findings:	30. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-DEC-12	Findings:	0.66 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04-DEC-12	Findings:	9.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-DEC-12	Findings:	28. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-JAN-13	Findings:	0.62 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02-JAN-13	Findings:	7.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-JAN-13	Findings:	28. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08-JAN-13	Findings:	0.73 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08-JAN-13	Findings:	10. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08-JAN-13	Findings:	29. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-FEB-13	Findings:	0.68 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05-FEB-13	Findings:	8. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-FEB-13	Findings:	28. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-MAR-13	Findings:	0.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05-MAR-13	Findings:	9.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-MAR-13	Findings:	28. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-APR-13	Findings:	0.63 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02-APR-13	Findings:	8.6 UG/L
Chemical:	TRICHLOROETHYLENE		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	02-APR-13	Findings:	30. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-APR-13	Findings:	0.36 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	09-APR-13	Findings:	0.66 UG/L
Chemical:	TETRACHLOROETHYLENE		

**D16**  
**SSE**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS    1334**

**Water System Information:**

Prime Station Code:	01S/11W-02F02 S	User ID:	4TH
FRDS Number:	1910003009	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340600.0 1180000.0	Precision:	Undefined
Source Name:	LONGDEN WELL 02		
System Number:	1910003		
System Name:	ARCADIA-CITY, WATER DIVISION		
Organization That Operates System:	240 W HUNTINGTON DRIVE ARCADIA, CA 91006		
Pop Served:	48290	Connections:	12901
Area Served:	ARCADIA		
Sample Collected:	03-DEC-12	Findings:	50. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-DEC-12	Findings:	0.53 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-DEC-12	Findings:	50. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-FEB-13	Findings:	0.54 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	13-FEB-13	Findings:	44. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-MAR-13	Findings:	0.34 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	05-MAR-13	Findings:	0.53 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-MAR-13	Findings:	45. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-MAR-13	Findings:	0.56 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	13-MAR-13	Findings:	47. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-APR-13	Findings:	42. MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	15-MAY-13	Findings:	42. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-JUN-13	Findings:	44. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-JUN-13	Findings:	1.9 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-JUN-13	Findings:	0.59 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11-JUN-13	Findings:	45. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-JUL-13	Findings:	0.56 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09-JUL-13	Findings:	47. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-AUG-13	Findings:	0.54 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	13-AUG-13	Findings:	45. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-SEP-13	Findings:	2.6 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	05-SEP-13	Findings:	1.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05-SEP-13	Findings:	340. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	05-SEP-13	Findings:	36. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-SEP-13	Findings:	45. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08-OCT-13	Findings:	1. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08-OCT-13	Findings:	38. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-NOV-13	Findings:	1. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	13-NOV-13	Findings:	37. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-DEC-13	Findings:	53. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-DEC-13	Findings:	52. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-JAN-14	Findings:	56. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-JAN-14	Findings:	55. MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	12-FEB-14	Findings:	60. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-MAR-14	Findings:	56. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-APR-14	Findings:	56. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08-APR-14	Findings:	56. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JUN-14	Findings:	0.505 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	10-JUN-14	Findings:	0.253 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	10-JUN-14	Findings:	3.3e-002 PCI/L
Chemical:	RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0		
Sample Collected:	10-JUN-14	Findings:	0.213 PCI/L
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.		
Sample Collected:	10-JUN-14	Findings:	0.363 PCI/L
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		
Sample Collected:	10-JUN-14	Findings:	550. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10-JUN-14	Findings:	7.54
Chemical:	PH, LABORATORY		
Sample Collected:	10-JUN-14	Findings:	200. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	10-JUN-14	Findings:	240. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10-JUN-14	Findings:	240. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	10-JUN-14	Findings:	66.9 MG/L
Chemical:	CALCIUM		
Sample Collected:	10-JUN-14	Findings:	18. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10-JUN-14	Findings:	16. MG/L
Chemical:	SODIUM		
Sample Collected:	10-JUN-14	Findings:	2.1 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10-JUN-14	Findings:	24. MG/L
Chemical:	CHLORIDE		
Sample Collected:	10-JUN-14	Findings:	35. MG/L
Chemical:	SULFATE		
Sample Collected:	10-JUN-14	Findings:	0.38 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	10-JUN-14	Findings:	0.247 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10-JUN-14	Findings:	3.3 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	10-JUN-14	Findings:	1.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10-JUN-14	Findings:	0.64 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10-JUN-14	Findings:	330. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10-JUN-14	Findings:	0.758
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	10-JUN-14	Findings:	0.221
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	10-JUN-14	Findings:	41. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JUN-14	Findings:	12.1
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	10-JUN-14	Findings:	1.6e-002 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	08-JUL-14	Findings:	1.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08-JUL-14	Findings:	0.81 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08-JUL-14	Findings:	38. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JUL-14	Findings:	1.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10-JUL-14	Findings:	0.71 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10-JUL-14	Findings:	37. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-AUG-14	Findings:	0.92 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12-AUG-14	Findings:	0.79 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-AUG-14	Findings:	41. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-SEP-14	Findings:	56. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-OCT-14	Findings:	53. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-OCT-14	Findings:	52. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-NOV-14	Findings:	60. MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	16-DEC-14	Findings:	59. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-JAN-15	Findings:	59. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-JAN-15	Findings:	59. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-FEB-15	Findings:	57. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-MAR-15	Findings:	56. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-APR-15	Findings:	54. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-MAY-15	Findings:	55. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-JUN-15	Findings:	58. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-JUL-15	Findings:	58. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-JUL-15	Findings:	60. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	27-AUG-15	Findings:	55. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-SEP-15	Findings:	59. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-OCT-15	Findings:	12. MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	21-OCT-15	Findings:	0.217 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	21-OCT-15	Findings:	310. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	21-OCT-15	Findings:	1.e-002 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	17-NOV-15	Findings:	56. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-DEC-15	Findings:	13. MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	12-JAN-16	Findings:	12. MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	20-JAN-16	Findings:	12. MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	20-JAN-16	Findings:	0.36 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	20-JAN-16	Findings:	4.7 UG/L
Chemical:	CHROMIUM, HEXAVALENT		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	20-JAN-16	Findings:	130. UG/L
Chemical:	ALUMINUM		
Sample Collected:	18-JAN-11	Findings:	2.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	18-JAN-11	Findings:	1.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	18-JAN-11	Findings:	28. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-FEB-11	Findings:	2.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09-FEB-11	Findings:	1.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09-FEB-11	Findings:	27. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-MAR-11	Findings:	2.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02-MAR-11	Findings:	1.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-MAR-11	Findings:	31. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-MAR-11	Findings:	2. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09-MAR-11	Findings:	1.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09-MAR-11	Findings:	27. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-APR-11	Findings:	2. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	13-APR-11	Findings:	0.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	13-APR-11	Findings:	27. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-MAY-11	Findings:	2. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10-MAY-11	Findings:	30. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-JUN-11	Findings:	16. C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	14-JUN-11	Findings:	570. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	14-JUN-11	Findings:	7.6
Chemical:	PH, LABORATORY		
Sample Collected:	14-JUN-11	Findings:	200. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	14-JUN-11	Findings:	250. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	14-JUN-11	Findings:	260. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO <sub>3</sub>		
Sample Collected:	14-JUN-11	Findings:	80. MG/L
Chemical:	CALCIUM		
Sample Collected:	14-JUN-11	Findings:	18. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	14-JUN-11	Findings:	18. MG/L
Chemical:	SODIUM		
Sample Collected:	14-JUN-11	Findings:	2.2 MG/L
Chemical:	POTASSIUM		
Sample Collected:	14-JUN-11	Findings:	20. MG/L
Chemical:	CHLORIDE		
Sample Collected:	14-JUN-11	Findings:	36. MG/L
Chemical:	SULFATE		
Sample Collected:	14-JUN-11	Findings:	0.49 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	14-JUN-11	Findings:	110. UG/L
Chemical:	BORON		
Sample Collected:	14-JUN-11	Findings:	2.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	14-JUN-11	Findings:	0.55 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-JUN-11	Findings:	340. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	14-JUN-11	Findings:	0.99
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	14-JUN-11	Findings:	0.33
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	14-JUN-11	Findings:	29. MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	14-JUN-11	Findings:	12.21
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	16-JUN-11	Findings:	1.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	16-JUN-11	Findings:	28. MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	12-JUL-11	Findings:	1.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12-JUL-11	Findings:	25. MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	16-AUG-11	Findings:	1.3 UG/L
Chemical:	TETRACHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	16-AUG-11	Findings:	23. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-SEP-11	Findings:	1.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-SEP-11	Findings:	23. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-SEP-11	Findings:	0.71 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	13-SEP-11	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-OCT-11	Findings:	0.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-OCT-11	Findings:	19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08-NOV-11	Findings:	1.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08-NOV-11	Findings:	23. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	19-DEC-11	Findings:	0.89 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	19-DEC-11	Findings:	24. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	19-DEC-11	Findings:	0.81 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	19-DEC-11	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JAN-12	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-FEB-12	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-MAR-12	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-MAR-12	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-APR-12	Findings:	20. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08-MAY-12	Findings:	23. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-JUN-12	Findings:	0.97 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-JUN-12	Findings:	24. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-JUN-12	Findings:	0.98 UG/L
Chemical:	TETRACHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	11-JUN-12	Findings:	26. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JUL-12	Findings:	1.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10-JUL-12	Findings:	23. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-AUG-12	Findings:	32. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-SEP-12	Findings:	1.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04-SEP-12	Findings:	330. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	04-SEP-12	Findings:	30. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-SEP-12	Findings:	0.97 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-SEP-12	Findings:	30. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-OCT-12	Findings:	39. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-NOV-12	Findings:	46. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-DEC-12	Findings:	3.7 PCI/L
Chemical:	URANIUM (PCI/L)		

**D17**  
**SSE**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS 1333**

**Water System Information:**

Prime Station Code:	01S/11W-02F01 S	User ID:	4TH
FRDS Number:	1910003008	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340600.0 1180000.0	Precision:	Undefined
Source Name:	LONGDEN WELL 01		
System Number:	1910003		
System Name:	ARCADIA-CITY, WATER DIVISION		
Organization That Operates System:	240 W HUNTINGTON DRIVE ARCADIA, CA 91006	Connections:	12901
Pop Served:	48290		
Area Served:	ARCADIA	Findings:	1.2 UG/L
Sample Collected:	18-JAN-11		
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	18-JAN-11	Findings:	0.68 UG/L
Chemical:	TRICHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	18-JAN-11	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-FEB-11	Findings:	1.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09-FEB-11	Findings:	0.65 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09-FEB-11	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-MAR-11	Findings:	0.79 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02-MAR-11	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-MAR-11	Findings:	0.85 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09-MAR-11	Findings:	12. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-APR-11	Findings:	0.68 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	13-APR-11	Findings:	11. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-MAY-11	Findings:	6.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-JUN-11	Findings:	16. C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	14-JUN-11	Findings:	410. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	14-JUN-11	Findings:	7.8
Chemical:	PH, LABORATORY		
Sample Collected:	14-JUN-11	Findings:	150. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	14-JUN-11	Findings:	190. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	14-JUN-11	Findings:	180. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	14-JUN-11	Findings:	59. MG/L
Chemical:	CALCIUM		
Sample Collected:	14-JUN-11	Findings:	13. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	14-JUN-11	Findings:	13. MG/L
Chemical:	SODIUM		
Sample Collected:	14-JUN-11	Findings:	1.6 MG/L
Chemical:	POTASSIUM		
Sample Collected:	14-JUN-11	Findings:	18. MG/L
Chemical:	CHLORIDE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	14-JUN-11	Findings:	24. MG/L
Chemical:	SULFATE		
Sample Collected:	14-JUN-11	Findings:	0.47 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	14-JUN-11	Findings:	250. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	14-JUN-11	Findings:	0.95
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	14-JUN-11	Findings:	0.28
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	14-JUN-11	Findings:	5.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-JUN-11	Findings:	12.15
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	16-JUN-11	Findings:	0.44 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	16-JUN-11	Findings:	7. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-JUL-11	Findings:	6.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-AUG-11	Findings:	6.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-SEP-11	Findings:	9.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-SEP-11	Findings:	7.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-OCT-11	Findings:	6.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08-NOV-11	Findings:	6.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	19-DEC-11	Findings:	7.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	19-DEC-11	Findings:	6.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JAN-12	Findings:	6. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-FEB-12	Findings:	6.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-MAR-12	Findings:	6.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-MAR-12	Findings:	6.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-APR-12	Findings:	7.6 MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	08-MAY-12	Findings:	8.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-JUN-12	Findings:	0.54 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-JUN-12	Findings:	10. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-JUN-12	Findings:	0.57 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-JUN-12	Findings:	11. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JUL-12	Findings:	0.64 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10-JUL-12	Findings:	10. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-AUG-12	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-SEP-12	Findings:	0.61 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04-SEP-12	Findings:	0.53 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-SEP-12	Findings:	290. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	04-SEP-12	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-SEP-12	Findings:	0.67 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-SEP-12	Findings:	0.53 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11-SEP-12	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-OCT-12	Findings:	20. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-NOV-12	Findings:	0.54 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	14-NOV-12	Findings:	27. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-DEC-12	Findings:	29. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-DEC-12	Findings:	31. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-FEB-13	Findings:	28. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-MAR-13	Findings:	29. MG/L
Chemical:	NITRATE (AS NO3)		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	13-MAR-13	Findings:	30. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-APR-13	Findings:	26. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-MAY-13	Findings:	0.83 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	15-MAY-13	Findings:	0.63 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	15-MAY-13	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-JUN-13	Findings:	0.56 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-JUN-13	Findings:	27. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-JUN-13	Findings:	27. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-JUL-13	Findings:	0.78 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09-JUL-13	Findings:	30. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-AUG-13	Findings:	0.82 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	13-AUG-13	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-SEP-13	Findings:	1.5 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	05-SEP-13	Findings:	0.79 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05-SEP-13	Findings:	310. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	05-SEP-13	Findings:	20. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-SEP-13	Findings:	0.73 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09-SEP-13	Findings:	20. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08-OCT-13	Findings:	0.64 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08-OCT-13	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-NOV-13	Findings:	0.77 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	13-NOV-13	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	02-DEC-13	Findings:	0.81 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-DEC-13	Findings:	43. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-DEC-13	Findings:	0.69 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10-DEC-13	Findings:	41. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-JAN-14	Findings:	0.84 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	13-JAN-14	Findings:	45. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-JAN-14	Findings:	0.95 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	13-JAN-14	Findings:	46. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-FEB-14	Findings:	0.51 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12-FEB-14	Findings:	0.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-FEB-14	Findings:	47. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-MAR-14	Findings:	0.52 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-MAR-14	Findings:	0.83 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11-MAR-14	Findings:	46. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-APR-14	Findings:	0.25 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	03-APR-14	Findings:	0.78 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-APR-14	Findings:	43. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08-APR-14	Findings:	0.92 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08-APR-14	Findings:	29. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JUN-14	Findings:	0.515 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	10-JUN-14	Findings:	0.2 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	10-JUN-14	Findings:	0.158 PCI/L
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10-JUN-14	Findings:	0.363 PCI/L
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		
Sample Collected:	10-JUN-14	Findings:	520. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10-JUN-14	Findings:	7.26
Chemical:	PH, LABORATORY		
Sample Collected:	10-JUN-14	Findings:	200. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO <sub>3</sub>		
Sample Collected:	10-JUN-14	Findings:	240. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10-JUN-14	Findings:	220. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO <sub>3</sub>		
Sample Collected:	10-JUN-14	Findings:	63.6 MG/L
Chemical:	CALCIUM		
Sample Collected:	10-JUN-14	Findings:	16. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10-JUN-14	Findings:	16. MG/L
Chemical:	SODIUM		
Sample Collected:	10-JUN-14	Findings:	1.9 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10-JUN-14	Findings:	24. MG/L
Chemical:	CHLORIDE		
Sample Collected:	10-JUN-14	Findings:	34. MG/L
Chemical:	SULFATE		
Sample Collected:	10-JUN-14	Findings:	0.36 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	10-JUN-14	Findings:	0.209 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10-JUN-14	Findings:	2.5 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	10-JUN-14	Findings:	0.82 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10-JUN-14	Findings:	310. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10-JUN-14	Findings:	0.462
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	10-JUN-14	Findings:	- 7.6e-002
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	10-JUN-14	Findings:	23. MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	10-JUN-14	Findings:	11.8
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	10-JUN-14	Findings:	1.6e-002 PCI/L
Chemical:	GROSS ALPHA MDA95		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	08-JUL-14	Findings:	0.76 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08-JUL-14	Findings:	23. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JUL-14	Findings:	0.89 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10-JUL-14	Findings:	23. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-AUG-14	Findings:	0.76 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12-AUG-14	Findings:	24. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-SEP-14	Findings:	0.9 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	17-SEP-14	Findings:	26. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-OCT-14	Findings:	0.73 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09-OCT-14	Findings:	43. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-OCT-14	Findings:	0.67 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-OCT-14	Findings:	40. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-NOV-14	Findings:	0.74 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-NOV-14	Findings:	46. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-DEC-14	Findings:	0.79 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	16-DEC-14	Findings:	54. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-JAN-15	Findings:	0.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12-JAN-15	Findings:	0.76 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-JAN-15	Findings:	42. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-JAN-15	Findings:	0.69 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-JAN-15	Findings:	54. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-FEB-15	Findings:	0.69 UG/L
Chemical:	TRICHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10-FEB-15	Findings:	53. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-MAR-15	Findings:	0.75 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10-MAR-15	Findings:	51. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-APR-15	Findings:	52. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-MAY-15	Findings:	52. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-JUN-15	Findings:	52. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-JUL-15	Findings:	0.62 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-JUL-15	Findings:	56. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-JUL-15	Findings:	0.56 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-JUL-15	Findings:	53. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-AUG-15	Findings:	0.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12-AUG-15	Findings:	0.78 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-AUG-15	Findings:	49. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-SEP-15	Findings:	59. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-OCT-15	Findings:	13. MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	21-OCT-15	Findings:	0.51 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	21-OCT-15	Findings:	360. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	17-NOV-15	Findings:	61. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-DEC-15	Findings:	12. MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	16-DEC-15	Findings:	0.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-JAN-16	Findings:	8.6 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	12-JAN-16	Findings:	1.2 UG/L
Chemical:	TETRACHLOROETHYLENE		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected: 12-JAN-16 Findings: 1.6 UG/L  
 Chemical: TRICHLOROETHYLENE

**D18**  
**SSE**  
 1/2 - 1 Mile  
 Lower

**CA WELLS 1336**

**Water System Information:**

Prime Station Code:	01S/11W-02G02 S	User ID:	4TH
FRDS Number:	1910090001	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340600.0 1180000.0	Precision:	Undefined
Source Name:	MONROVIA WELL 01		
System Number:	1910090		
System Name:	MONROVIA-CITY, WATER DEPT.		
Organization That Operates System:	415 SOUTH IVY AVENUE MONROVIA, CA 91016		
Pop Served:	37545	Connections:	8359
Area Served:	MONROVIA		

**D19**  
**SSE**  
 1/2 - 1 Mile  
 Lower

**CA WELLS 1359**

**Water System Information:**

Prime Station Code:	01S/11W-11C04 S	User ID:	4TH
FRDS Number:	1910003015	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340600.0 1180000.0	Precision:	Undefined
Source Name:	PECK WELL 01		
System Number:	1910003		
System Name:	ARCADIA-CITY, WATER DIVISION		
Organization That Operates System:	240 W HUNTINGTON DRIVE ARCADIA, CA 91006		
Pop Served:	48290	Connections:	12901
Area Served:	ARCADIA		
Sample Collected:	14-JUN-11	Findings:	18. C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	14-JUN-11	Findings:	420. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	14-JUN-11	Findings:	7.6
Chemical:	PH, LABORATORY		
Sample Collected:	14-JUN-11	Findings:	130. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	14-JUN-11	Findings:	160. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	14-JUN-11	Findings:	160. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO <sub>3</sub>		
Sample Collected:	14-JUN-11	Findings:	52. MG/L
Chemical:	CALCIUM		
Sample Collected:	14-JUN-11	Findings:	11. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	14-JUN-11	Findings:	20. MG/L
Chemical:	SODIUM		
Sample Collected:	14-JUN-11	Findings:	1.9 MG/L
Chemical:	POTASSIUM		
Sample Collected:	14-JUN-11	Findings:	23. MG/L
Chemical:	CHLORIDE		
Sample Collected:	14-JUN-11	Findings:	42. MG/L
Chemical:	SULFATE		
Sample Collected:	14-JUN-11	Findings:	0.41 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	14-JUN-11	Findings:	260. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	14-JUN-11	Findings:	0.62
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	14-JUN-11	Findings:	- 2.e-002
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	14-JUN-11	Findings:	11.82
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	16-JUN-11	Findings:	0.36 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	11-JUN-12	Findings:	2.5 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	04-SEP-12	Findings:	250. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	11-JUN-13	Findings:	2.6 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	11-JUN-13	Findings:	2.8 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	05-SEP-13	Findings:	260. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03-APR-14	Findings:	0.28 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	10-JUN-14	Findings:	0.518 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	10-JUN-14	Findings:	0.2 PCI/L
Chemical:	RADIUM 228 MDA95		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10-JUN-14	Findings:	0.169 PCI/L
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.		
Sample Collected:	10-JUN-14	Findings:	0.363 PCI/L
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		
Sample Collected:	10-JUN-14	Findings:	430. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10-JUN-14	Findings:	7.48
Chemical:	PH, LABORATORY		
Sample Collected:	10-JUN-14	Findings:	140. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO <sub>3</sub>		
Sample Collected:	10-JUN-14	Findings:	170. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10-JUN-14	Findings:	160. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO <sub>3</sub>		
Sample Collected:	10-JUN-14	Findings:	46.7 MG/L
Chemical:	CALCIUM		
Sample Collected:	10-JUN-14	Findings:	11. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10-JUN-14	Findings:	21. MG/L
Chemical:	SODIUM		
Sample Collected:	10-JUN-14	Findings:	2. MG/L
Chemical:	POTASSIUM		
Sample Collected:	10-JUN-14	Findings:	24. MG/L
Chemical:	CHLORIDE		
Sample Collected:	10-JUN-14	Findings:	47. MG/L
Chemical:	SULFATE		
Sample Collected:	10-JUN-14	Findings:	0.34 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	10-JUN-14	Findings:	0.682 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10-JUN-14	Findings:	6.7e-002 MG/L
Chemical:	FOAMING AGENTS (MBAS)		
Sample Collected:	10-JUN-14	Findings:	260. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10-JUN-14	Findings:	0.409
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	10-JUN-14	Findings:	- 0.128
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	10-JUN-14	Findings:	2.3 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	10-JUN-14	Findings:	11.7
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	10-JUN-14	Findings:	1.091 PCI/L
Chemical:	GROSS ALPHA MDA95		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	12-JAN-15	Findings:	0.605 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	12-JAN-15	Findings:	0.2 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	12-JAN-15	Findings:	0.108 PCI/L
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.		
Sample Collected:	12-JAN-15	Findings:	0.47 PCI/L
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		
Sample Collected:	12-JAN-15	Findings:	3.78 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	12-JAN-15	Findings:	0.316 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12-JAN-15	Findings:	1.1 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	12-JAN-15	Findings:	1.6e-002 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	21-OCT-15	Findings:	270. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		

**D20  
SSE  
1/2 - 1 Mile  
Lower**

**CA WELLS 1338**

**Water System Information:**

Prime Station Code:	01S/11W-02H02 S	User ID:	4TH
FRDS Number:	1910090005	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340600.0 1180000.0	Precision:	Undefined
Source Name:	MONROVIA WELL 05		
System Number:	1910090		
System Name:	MONROVIA-CITY, WATER DEPT.		
Organization That Operates System:	415 SOUTH IVY AVENUE MONROVIA, CA 91016		
Pop Served:	37545	Connections:	8359
Area Served:	MONROVIA		
Sample Collected:	20-JAN-11	Findings:	2.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-FEB-11	Findings:	2.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-MAR-11	Findings:	3.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-APR-11	Findings:	2.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-APR-11	Findings:	360. US
Chemical:	SPECIFIC CONDUCTANCE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	05-APR-11	Findings:	8.
Chemical:	PH, LABORATORY		
Sample Collected:	05-APR-11	Findings:	140. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO <sub>3</sub>		
Sample Collected:	05-APR-11	Findings:	160. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	05-APR-11	Findings:	160. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO <sub>3</sub>		
Sample Collected:	05-APR-11	Findings:	45. MG/L
Chemical:	CALCIUM		
Sample Collected:	05-APR-11	Findings:	11. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	05-APR-11	Findings:	12. MG/L
Chemical:	SODIUM		
Sample Collected:	05-APR-11	Findings:	1.6 MG/L
Chemical:	POTASSIUM		
Sample Collected:	05-APR-11	Findings:	16. MG/L
Chemical:	CHLORIDE		
Sample Collected:	05-APR-11	Findings:	21. MG/L
Chemical:	SULFATE		
Sample Collected:	05-APR-11	Findings:	0.46 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	05-APR-11	Findings:	230. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	05-APR-11	Findings:	0.85
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	05-APR-11	Findings:	2.8 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	05-APR-11	Findings:	0.18 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	05-APR-11	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	05-APR-11	Findings:	640. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	11-APR-11	Findings:	3. MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	03-MAY-11	Findings:	3.3 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	07-JUN-11	Findings:	3.4 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	05-JUL-11	Findings:	3.4 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	02-AUG-11	Findings:	3.5 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	06-SEP-11	Findings:	3.7 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-OCT-11	Findings:	3.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-NOV-11	Findings:	3.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-DEC-11	Findings:	3.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-JAN-12	Findings:	3.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-FEB-12	Findings:	4.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-MAR-12	Findings:	5.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-APR-12	Findings:	6.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-APR-12	Findings:	370. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03-APR-12	Findings:	7.8
Chemical:	PH, LABORATORY		
Sample Collected:	03-APR-12	Findings:	130. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	03-APR-12	Findings:	160. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	03-APR-12	Findings:	160. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	03-APR-12	Findings:	47. MG/L
Chemical:	CALCIUM		
Sample Collected:	03-APR-12	Findings:	11. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03-APR-12	Findings:	14. MG/L
Chemical:	SODIUM		
Sample Collected:	03-APR-12	Findings:	1.5 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03-APR-12	Findings:	18. MG/L
Chemical:	CHLORIDE		
Sample Collected:	03-APR-12	Findings:	25. MG/L
Chemical:	SULFATE		
Sample Collected:	03-APR-12	Findings:	0.43 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	03-APR-12	Findings:	230. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03-APR-12	Findings:	0.73
Chemical:	LANGELIER INDEX @ 60 C		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03-APR-12	Findings:	5.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-APR-12	Findings:	0.22 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	03-APR-12	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	03-APR-12	Findings:	1300. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	19-APR-12	Findings:	7.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-MAY-12	Findings:	6.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-JUN-12	Findings:	6.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-JUL-12	Findings:	7. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-AUG-12	Findings:	7.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-SEP-12	Findings:	7.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-OCT-12	Findings:	7.7 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-NOV-12	Findings:	8. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-DEC-12	Findings:	8.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-JAN-13	Findings:	8.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-FEB-13	Findings:	8.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-MAR-13	Findings:	8.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-APR-13	Findings:	8.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-APR-13	Findings:	0.43 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	09-APR-13	Findings:	9.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-MAY-13	Findings:	10. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	23-MAY-13	Findings:	420. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	23-MAY-13	Findings:	7.9
Chemical:	PH, LABORATORY		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	23-MAY-13	Findings:	140. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO <sub>3</sub>		
Sample Collected:	23-MAY-13	Findings:	170. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	23-MAY-13	Findings:	170. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO <sub>3</sub>		
Sample Collected:	23-MAY-13	Findings:	50. MG/L
Chemical:	CALCIUM		
Sample Collected:	23-MAY-13	Findings:	12. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	23-MAY-13	Findings:	14. MG/L
Chemical:	SODIUM		
Sample Collected:	23-MAY-13	Findings:	1.7 MG/L
Chemical:	POTASSIUM		
Sample Collected:	23-MAY-13	Findings:	22. MG/L
Chemical:	CHLORIDE		
Sample Collected:	23-MAY-13	Findings:	27. MG/L
Chemical:	SULFATE		
Sample Collected:	23-MAY-13	Findings:	0.41 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	23-MAY-13	Findings:	240. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	23-MAY-13	Findings:	0.84
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	23-MAY-13	Findings:	9.7 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	23-MAY-13	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	23-MAY-13	Findings:	2200. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	23-MAY-13	Findings:	2.1 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	23-MAY-13	Findings:	0.97 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	23-MAY-13	Findings:	1.5 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	23-MAY-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	23-MAY-13	Findings:	0.4 PCI/L
Chemical:	RADIUM 226 MDA95		
Sample Collected:	23-MAY-13	Findings:	0.66 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	23-MAY-13	Findings:	3. PCI/L
Chemical:	GROSS BETA MDA95		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	04-JUN-13	Findings:	9.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-JUL-13	Findings:	0.52 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-JUL-13	Findings:	9.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JUL-13	Findings:	0.57 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-AUG-13	Findings:	0.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-AUG-13	Findings:	9.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-SEP-13	Findings:	0.81 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-SEP-13	Findings:	10. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-OCT-13	Findings:	0.88 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-OCT-13	Findings:	10. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-NOV-13	Findings:	0.89 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-NOV-13	Findings:	9.7 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-DEC-13	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-DEC-13	Findings:	10. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-JAN-14	Findings:	1.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-JAN-14	Findings:	11. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	31-JAN-14	Findings:	1.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-FEB-14	Findings:	0.98 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-FEB-14	Findings:	11. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-MAR-14	Findings:	0.76 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-MAR-14	Findings:	12. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-APR-14	Findings:	0.57 UG/L
Chemical:	TETRACHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	01-APR-14	Findings:	1.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-APR-14	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-APR-14	Findings:	1.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09-APR-14	Findings:	12. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-MAY-14	Findings:	450. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	06-MAY-14	Findings:	8.
Chemical:	PH, LABORATORY		
Sample Collected:	06-MAY-14	Findings:	140. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	06-MAY-14	Findings:	170. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	06-MAY-14	Findings:	200. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	06-MAY-14	Findings:	56. MG/L
Chemical:	CALCIUM		
Sample Collected:	06-MAY-14	Findings:	14. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	06-MAY-14	Findings:	15. MG/L
Chemical:	SODIUM		
Sample Collected:	06-MAY-14	Findings:	1.7 MG/L
Chemical:	POTASSIUM		
Sample Collected:	06-MAY-14	Findings:	21. MG/L
Chemical:	CHLORIDE		
Sample Collected:	06-MAY-14	Findings:	28. MG/L
Chemical:	SULFATE		
Sample Collected:	06-MAY-14	Findings:	0.43 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	06-MAY-14	Findings:	0.52 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06-MAY-14	Findings:	1.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-MAY-14	Findings:	270. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	06-MAY-14	Findings:	0.97
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	06-MAY-14	Findings:	12. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-MAY-14	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	06-MAY-14	Findings:	2800. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	03-JUN-14	Findings:	0.58 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03-JUN-14	Findings:	1.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-JUN-14	Findings:	12. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-JUL-14	Findings:	0.57 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-JUL-14	Findings:	1.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-JUL-14	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-JUL-14	Findings:	0.65 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07-JUL-14	Findings:	2.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-AUG-14	Findings:	0.54 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05-AUG-14	Findings:	1.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-AUG-14	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-SEP-14	Findings:	0.67 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02-SEP-14	Findings:	2.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-SEP-14	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-OCT-14	Findings:	280. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07-OCT-14	Findings:	0.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07-OCT-14	Findings:	3. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-OCT-14	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-NOV-14	Findings:	0.54 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04-NOV-14	Findings:	2.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-NOV-14	Findings:	17. MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	01-DEC-14	Findings:	0.63 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-DEC-14	Findings:	3.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-DEC-14	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-JAN-15	Findings:	0.92 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06-JAN-15	Findings:	4.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-JAN-15	Findings:	23. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	20-JAN-15	Findings:	0.64 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	20-JAN-15	Findings:	3.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-FEB-15	Findings:	0.69 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03-FEB-15	Findings:	3.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-FEB-15	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-MAR-15	Findings:	0.67 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03-MAR-15	Findings:	4. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-MAR-15	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-APR-15	Findings:	0.56 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-APR-15	Findings:	3.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-APR-15	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-APR-15	Findings:	0.75 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07-APR-15	Findings:	4.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-APR-15	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-MAY-15	Findings:	0.61 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05-MAY-15	Findings:	4.5 UG/L
Chemical:	TRICHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	05-MAY-15	Findings:	17. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-JUN-15	Findings:	0.61 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02-JUN-15	Findings:	4.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-JUN-15	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-JUL-15	Findings:	0.61 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07-JUL-15	Findings:	5.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-JUL-15	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-JUL-15	Findings:	0.52 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	15-JUL-15	Findings:	4.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-AUG-15	Findings:	0.52 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04-AUG-15	Findings:	4.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-AUG-15	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-SEP-15	Findings:	0.57 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-SEP-15	Findings:	4.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-SEP-15	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-OCT-15	Findings:	0.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06-OCT-15	Findings:	6.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-OCT-15	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-OCT-15	Findings:	0.63 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	14-OCT-15	Findings:	5.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-OCT-15	Findings:	260. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	04-NOV-15	Findings:	3.7 MG/L
Chemical:	NITRATE (AS N)		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	04-NOV-15	Findings:	0.68 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04-NOV-15	Findings:	6.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-NOV-15	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-DEC-15	Findings:	3.7 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	01-DEC-15	Findings:	0.57 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-DEC-15	Findings:	6.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-DEC-15	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-JAN-16	Findings:	1.5 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	04-JAN-16	Findings:	1.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-JAN-16	Findings:	2.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-FEB-16	Findings:	1.5 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	02-FEB-16	Findings:	1.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-MAR-16	Findings:	3.6 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	01-MAR-16	Findings:	0.68 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-MAR-16	Findings:	7.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-APR-16	Findings:	3.3 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	05-APR-16	Findings:	2.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05-APR-16	Findings:	8. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-APR-16	Findings:	3. MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	12-APR-16	Findings:	0.35 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	12-APR-16	Findings:	1.5 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	12-APR-16	Findings:	6.1 UG/L
Chemical:	TRICHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03-MAY-16	Findings:	3.3 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	03-MAY-16	Findings:	0.56 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03-MAY-16	Findings:	5.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-MAY-16	Findings:	440. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	04-MAY-16	Findings:	8.2
Chemical:	PH, LABORATORY		
Sample Collected:	04-MAY-16	Findings:	150. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	04-MAY-16	Findings:	180. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	04-MAY-16	Findings:	3.3 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	04-MAY-16	Findings:	190. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	04-MAY-16	Findings:	55. MG/L
Chemical:	CALCIUM		
Sample Collected:	04-MAY-16	Findings:	13. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	04-MAY-16	Findings:	14. MG/L
Chemical:	SODIUM		
Sample Collected:	04-MAY-16	Findings:	1.7 MG/L
Chemical:	POTASSIUM		
Sample Collected:	04-MAY-16	Findings:	21. MG/L
Chemical:	CHLORIDE		
Sample Collected:	04-MAY-16	Findings:	29. MG/L
Chemical:	SULFATE		
Sample Collected:	04-MAY-16	Findings:	0.42 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	04-MAY-16	Findings:	270. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	04-MAY-16	Findings:	1.2
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	04-MAY-16	Findings:	0.12 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	04-MAY-16	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	04-MAY-16	Findings:	3.3 MG/L
Chemical:	NITRATE + NITRITE (AS N)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

**Water System Information:**

Prime Station Code:	01S/11W-02H01 S	User ID:	4TH
FRDS Number:	1910090004	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340600.0 1180000.0	Precision:	Undefined
Source Name:	MONROVIA WELL 04		
System Number:	1910090		
System Name:	MONROVIA-CITY, WATER DEPT.		
Organization That Operates System:	415 SOUTH IVY AVENUE MONROVIA, CA 91016		
Pop Served:	37545	Connections:	8359
Area Served:	MONROVIA		
Sample Collected:	03-OCT-12	Findings:	7.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-NOV-12	Findings:	7.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-DEC-12	Findings:	6.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-JAN-13	Findings:	7.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08-JAN-13	Findings:	8. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-FEB-13	Findings:	7. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-MAR-13	Findings:	7.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-APR-13	Findings:	9.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-APR-13	Findings:	0.43 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	09-APR-13	Findings:	8.7 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-MAY-13	Findings:	11. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	23-MAY-13	Findings:	440. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	23-MAY-13	Findings:	7.9
Chemical:	PH, LABORATORY		
Sample Collected:	23-MAY-13	Findings:	140. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	23-MAY-13	Findings:	170. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	23-MAY-13	Findings:	190. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	23-MAY-13	Findings:	55. MG/L
Chemical:	CALCIUM		
Sample Collected:	23-MAY-13	Findings:	12. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	23-MAY-13	Findings:	16. MG/L
Chemical:	SODIUM		
Sample Collected:	23-MAY-13	Findings:	1.6 MG/L
Chemical:	POTASSIUM		
Sample Collected:	23-MAY-13	Findings:	22. MG/L
Chemical:	CHLORIDE		
Sample Collected:	23-MAY-13	Findings:	30. MG/L
Chemical:	SULFATE		
Sample Collected:	23-MAY-13	Findings:	0.38 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	23-MAY-13	Findings:	270. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	23-MAY-13	Findings:	0.91
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	23-MAY-13	Findings:	11. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	23-MAY-13	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	23-MAY-13	Findings:	2600. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	23-MAY-13	Findings:	2.8 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	23-MAY-13	Findings:	0.6 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	23-MAY-13	Findings:	0.16 PCI/L
Chemical:	RADIUM 226 COUNTING ERROR		
Sample Collected:	23-MAY-13	Findings:	1.7 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	23-MAY-13	Findings:	3. PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	23-MAY-13	Findings:	0.35 PCI/L
Chemical:	RADIUM 226 MDA95		
Sample Collected:	23-MAY-13	Findings:	0.61 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	23-MAY-13	Findings:	3. PCI/L
Chemical:	GROSS BETA MDA95		
Sample Collected:	04-JUN-13	Findings:	8.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-JUL-13	Findings:	7.3 MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10-JUL-13	Findings:	7.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-AUG-13	Findings:	7.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-SEP-13	Findings:	7.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-OCT-13	Findings:	7. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-OCT-13	Findings:	7.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-NOV-13	Findings:	6.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-DEC-13	Findings:	5.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-JAN-14	Findings:	6.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	31-JAN-14	Findings:	7.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-FEB-14	Findings:	7.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-MAR-14	Findings:	0.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-MAR-14	Findings:	7.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-APR-14	Findings:	0.72 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-APR-14	Findings:	7.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-APR-14	Findings:	0.52 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09-APR-14	Findings:	7.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-MAY-14	Findings:	8. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-MAY-14	Findings:	420. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	06-MAY-14	Findings:	8.
Chemical:	PH, LABORATORY		
Sample Collected:	06-MAY-14	Findings:	130. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	06-MAY-14	Findings:	160. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	06-MAY-14	Findings:	180. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	06-MAY-14	Findings:	51. MG/L
Chemical:	CALCIUM		
Sample Collected:	06-MAY-14	Findings:	12. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	06-MAY-14	Findings:	15. MG/L
Chemical:	SODIUM		
Sample Collected:	06-MAY-14	Findings:	1.6 MG/L
Chemical:	POTASSIUM		
Sample Collected:	06-MAY-14	Findings:	20. MG/L
Chemical:	CHLORIDE		
Sample Collected:	06-MAY-14	Findings:	26. MG/L
Chemical:	SULFATE		
Sample Collected:	06-MAY-14	Findings:	0.43 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	06-MAY-14	Findings:	120. UG/L
Chemical:	ZINC		
Sample Collected:	06-MAY-14	Findings:	250. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	06-MAY-14	Findings:	0.9
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	06-MAY-14	Findings:	8. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-MAY-14	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	06-MAY-14	Findings:	1800. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	03-JUN-14	Findings:	0.79 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-JUN-14	Findings:	8.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-JUL-14	Findings:	0.78 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-JUL-14	Findings:	9. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-JUL-14	Findings:	0.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-JUL-14	Findings:	8.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-AUG-14	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-AUG-14	Findings:	9.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-SEP-14	Findings:	1.3 UG/L
Chemical:	TRICHLOROETHYLENE		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	02-SEP-14	Findings:	9.7 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-OCT-14	Findings:	270. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07-OCT-14	Findings:	1.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-OCT-14	Findings:	10. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-NOV-14	Findings:	1.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-NOV-14	Findings:	12. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-DEC-14	Findings:	1.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-DEC-14	Findings:	12. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-JAN-15	Findings:	0.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06-JAN-15	Findings:	2. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-JAN-15	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	20-JAN-15	Findings:	0.56 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	20-JAN-15	Findings:	2.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	20-JAN-15	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-FEB-15	Findings:	0.56 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03-FEB-15	Findings:	2.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-FEB-15	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-MAR-15	Findings:	1.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03-MAR-15	Findings:	9.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-APR-15	Findings:	2.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-APR-15	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-APR-15	Findings:	0.61 UG/L
Chemical:	TETRACHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	07-APR-15	Findings:	2.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-APR-15	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-MAY-15	Findings:	0.51 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05-MAY-15	Findings:	2.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-MAY-15	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-JUN-15	Findings:	0.61 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02-JUN-15	Findings:	2.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-JUN-15	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-JUL-15	Findings:	2.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-JUL-15	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-JUL-15	Findings:	2.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	15-JUL-15	Findings:	17. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-AUG-15	Findings:	2.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-AUG-15	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-SEP-15	Findings:	2.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-SEP-15	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-OCT-15	Findings:	0.56 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06-OCT-15	Findings:	3. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-OCT-15	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-OCT-15	Findings:	3.5 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	14-OCT-15	Findings:	1.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-OCT-15	Findings:	260. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	04-NOV-15	Findings:	3.8 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	04-NOV-15	Findings:	0.63 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04-NOV-15	Findings:	2.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-NOV-15	Findings:	17. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-DEC-15	Findings:	3.1 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	01-DEC-15	Findings:	2.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-DEC-15	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-JAN-16	Findings:	0.99 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	12-JAN-16	Findings:	1.1 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	12-JAN-16	Findings:	0.59 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-FEB-16	Findings:	0.99 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	01-MAR-16	Findings:	3.1 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	01-MAR-16	Findings:	0.52 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-MAR-16	Findings:	2.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-JAN-11	Findings:	3. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-JAN-11	Findings:	3. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-FEB-11	Findings:	2.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-MAR-11	Findings:	3.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-APR-11	Findings:	2.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-APR-11	Findings:	350. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	05-APR-11	Findings:	8.
Chemical:	PH, LABORATORY		
Sample Collected:	05-APR-11	Findings:	140. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	05-APR-11	Findings:	170. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	05-APR-11	Findings:	160. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO <sub>3</sub>		
Sample Collected:	05-APR-11	Findings:	46. MG/L
Chemical:	CALCIUM		
Sample Collected:	05-APR-11	Findings:	10. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	05-APR-11	Findings:	13. MG/L
Chemical:	SODIUM		
Sample Collected:	05-APR-11	Findings:	1.7 MG/L
Chemical:	POTASSIUM		
Sample Collected:	05-APR-11	Findings:	15. MG/L
Chemical:	CHLORIDE		
Sample Collected:	05-APR-11	Findings:	19. MG/L
Chemical:	SULFATE		
Sample Collected:	05-APR-11	Findings:	0.46 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	05-APR-11	Findings:	220. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	05-APR-11	Findings:	0.89
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	05-APR-11	Findings:	2.9 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	05-APR-11	Findings:	0.14 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	05-APR-11	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	05-APR-11	Findings:	650. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	11-APR-11	Findings:	2.9 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	03-MAY-11	Findings:	3.5 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	07-JUN-11	Findings:	3.5 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	05-JUL-11	Findings:	3.6 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	13-JUL-11	Findings:	3.7 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	02-AUG-11	Findings:	3.6 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	06-SEP-11	Findings:	3.8 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	04-OCT-11	Findings:	3.7 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-OCT-11	Findings:	4.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-NOV-11	Findings:	3.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-DEC-11	Findings:	3.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-JAN-12	Findings:	5.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-JAN-12	Findings:	6.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-FEB-12	Findings:	6.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-MAR-12	Findings:	8. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-APR-12	Findings:	8.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-APR-12	Findings:	390. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03-APR-12	Findings:	7.8
Chemical:	PH, LABORATORY		
Sample Collected:	03-APR-12	Findings:	130. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	03-APR-12	Findings:	160. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	03-APR-12	Findings:	170. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	03-APR-12	Findings:	49. MG/L
Chemical:	CALCIUM		
Sample Collected:	03-APR-12	Findings:	11. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03-APR-12	Findings:	15. MG/L
Chemical:	SODIUM		
Sample Collected:	03-APR-12	Findings:	1.4 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03-APR-12	Findings:	18. MG/L
Chemical:	CHLORIDE		
Sample Collected:	03-APR-12	Findings:	26. MG/L
Chemical:	SULFATE		
Sample Collected:	03-APR-12	Findings:	0.42 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	03-APR-12	Findings:	250. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03-APR-12	Findings:	0.73
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	03-APR-12	Findings:	8.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-APR-12	Findings:	0.55 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	03-APR-12	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	03-APR-12	Findings:	1900. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	19-APR-12	Findings:	8.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-MAY-12	Findings:	9.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-JUN-12	Findings:	8.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-JUL-12	Findings:	6.7 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-JUL-12	Findings:	9.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-AUG-12	Findings:	6.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-SEP-12	Findings:	10. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-OCT-12	Findings:	7.6 MG/L
Chemical:	NITRATE (AS NO3)		

**22  
East  
1/2 - 1 Mile  
Lower**

**CA WELLS      CADW60000005094**

Objectid:	5094
Latitude:	34.1099
Longitude:	-117.9927
Site code:	341099N1179927W001
State well numbe:	Not Reported
Local well name:	'MW-3'
Well use id:	1
Well use descrip:	Observation
County id:	19
County name:	Los Angeles
Basin code:	'4-13'
Basin desc:	San Gabriel Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000005094

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**E23**  
**SW**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      1355**

**Water System Information:**

Prime Station Code:	01S/11W-10F03 S	User ID:	MET
FRDS Number:	1910212006	County:	Los Angeles
District Number:	15	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340600.0 1180100.0	Precision:	Undefined
Source Name:	FARNA WELL 02		
System Number:	1910212		
System Name:	SCWC-SOUTH ARCADIA		
Organization That Operates System:	P.O. BOX 9016 SAN DIMAS, CA 91773		
Pop Served:	23034	Connections:	6980
Area Served:	Not Reported		
Sample Collected:	17-AUG-11	Findings:	0.51 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	17-AUG-11	Findings:	2.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-AUG-12	Findings:	2.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-AUG-12	Findings:	20. C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	21-AUG-12	Findings:	440. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	21-AUG-12	Findings:	7.95
Chemical:	PH, FIELD		
Sample Collected:	21-AUG-12	Findings:	7.95
Chemical:	PH, LABORATORY		
Sample Collected:	21-AUG-12	Findings:	180. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	21-AUG-12	Findings:	220. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	21-AUG-12	Findings:	180. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	21-AUG-12	Findings:	51. MG/L
Chemical:	CALCIUM		
Sample Collected:	21-AUG-12	Findings:	14. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	21-AUG-12	Findings:	16. MG/L
Chemical:	SODIUM		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	21-AUG-12	Findings:	1.9 MG/L
Chemical:	POTASSIUM		
Sample Collected:	21-AUG-12	Findings:	12. MG/L
Chemical:	CHLORIDE		
Sample Collected:	21-AUG-12	Findings:	16. MG/L
Chemical:	SULFATE		
Sample Collected:	21-AUG-12	Findings:	0.51 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	21-AUG-12	Findings:	250. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	21-AUG-12	Findings:	1.1
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	21-AUG-12	Findings:	4.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-AUG-12	Findings:	0.18 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	21-AUG-12	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	14-AUG-13	Findings:	260. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	14-AUG-13	Findings:	3.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-MAY-14	Findings:	1.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	28-AUG-14	Findings:	0.46 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	28-AUG-14	Findings:	3.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	28-AUG-14	Findings:	240. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	05-NOV-14	Findings:	1.9 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	14-AUG-15	Findings:	0.612 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	14-AUG-15	Findings:	0.253 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	14-AUG-15	Findings:	0.156 PCI/L
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.		
Sample Collected:	14-AUG-15	Findings:	0.47 PCI/L
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		
Sample Collected:	14-AUG-15	Findings:	0.193 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	14-AUG-15	Findings:	2.4 PCI/L
Chemical:	URANIUM (PCI/L)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	14-AUG-15	Findings:	6.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-AUG-15	Findings:	1.e-002 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	17-AUG-15	Findings:	420. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	17-AUG-15	Findings:	7.82
Chemical:	PH, LABORATORY		
Sample Collected:	17-AUG-15	Findings:	190. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	17-AUG-15	Findings:	240. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	17-AUG-15	Findings:	180. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	17-AUG-15	Findings:	50. MG/L
Chemical:	CALCIUM		
Sample Collected:	17-AUG-15	Findings:	13. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	17-AUG-15	Findings:	16. MG/L
Chemical:	SODIUM		
Sample Collected:	17-AUG-15	Findings:	1.7 MG/L
Chemical:	POTASSIUM		
Sample Collected:	17-AUG-15	Findings:	11. MG/L
Chemical:	CHLORIDE		
Sample Collected:	17-AUG-15	Findings:	15. MG/L
Chemical:	SULFATE		
Sample Collected:	17-AUG-15	Findings:	0.48 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	17-AUG-15	Findings:	270. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	17-AUG-15	Findings:	0.36
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	17-AUG-15	Findings:	5.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-AUG-15	Findings:	0.11 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	17-AUG-15	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		

**E24  
SW  
1/2 - 1 Mile  
Lower**

**CA WELLS 1354**

**Water System Information:**

Prime Station Code:	01S/11W-10F02 S	User ID:	MET
FRDS Number:	1910212005	County:	Los Angeles
District Number:	15	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340600.0 1180100.0	Precision:	Undefined
Source Name:	FARNA WELL 01		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

System Number:	1910212		
System Name:	SCWC-SOUTH ARCADIA		
Organization That Operates System:	P.O. BOX 9016		
	SAN DIMAS, CA 91773		
Pop Served:	23034	Connections:	6980
Area Served:	Not Reported		
Sample Collected:	25-APR-16	Findings:	3. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	15-MAY-12	Findings:	2.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-AUG-12	Findings:	15.5 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	21-AUG-12	Findings:	490. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	21-AUG-12	Findings:	7.86
Chemical:	PH, FIELD		
Sample Collected:	21-AUG-12	Findings:	7.86
Chemical:	PH, LABORATORY		
Sample Collected:	21-AUG-12	Findings:	170. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	21-AUG-12	Findings:	210. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	21-AUG-12	Findings:	190. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	21-AUG-12	Findings:	51. MG/L
Chemical:	CALCIUM		
Sample Collected:	21-AUG-12	Findings:	14. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	21-AUG-12	Findings:	18. MG/L
Chemical:	SODIUM		
Sample Collected:	21-AUG-12	Findings:	2. MG/L
Chemical:	POTASSIUM		
Sample Collected:	21-AUG-12	Findings:	18. MG/L
Chemical:	CHLORIDE		
Sample Collected:	21-AUG-12	Findings:	35. MG/L
Chemical:	SULFATE		
Sample Collected:	21-AUG-12	Findings:	0.43 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	21-AUG-12	Findings:	300. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	21-AUG-12	Findings:	0.84
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	21-AUG-12	Findings:	4.2 MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	21-AUG-12	Findings:	0.16 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	21-AUG-12	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	15-MAY-13	Findings:	0.44 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	15-MAY-13	Findings:	3.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-AUG-13	Findings:	290. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	26-FEB-14	Findings:	0.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	24-JUN-14	Findings:	4.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	28-AUG-14	Findings:	1.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	28-AUG-14	Findings:	270. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	19-MAY-15	Findings:	1.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	19-MAY-15	Findings:	9.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-AUG-15	Findings:	2. PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	14-AUG-15	Findings:	2.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	17-AUG-15	Findings:	450. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	17-AUG-15	Findings:	7.81
Chemical:	PH, LABORATORY		
Sample Collected:	17-AUG-15	Findings:	180. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	17-AUG-15	Findings:	220. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	17-AUG-15	Findings:	190. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	17-AUG-15	Findings:	52. MG/L
Chemical:	CALCIUM		
Sample Collected:	17-AUG-15	Findings:	14. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	17-AUG-15	Findings:	18. MG/L
Chemical:	SODIUM		
Sample Collected:	17-AUG-15	Findings:	2. MG/L
Chemical:	POTASSIUM		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	17-AUG-15	Findings:	18. MG/L
Chemical:	CHLORIDE		
Sample Collected:	17-AUG-15	Findings:	29. MG/L
Chemical:	SULFATE		
Sample Collected:	17-AUG-15	Findings:	0.42 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	17-AUG-15	Findings:	290. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	17-AUG-15	Findings:	0.36
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	17-AUG-15	Findings:	9.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-AUG-15	Findings:	0.11 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	17-AUG-15	Findings:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	22-MAR-16	Findings:	4.1 UG/L
Chemical:	TRICHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database EDR ID Number

1

**SSE**

1/2 - 1 Mile

OIL\_GAS

CAOG11000204462

District nun:	1	Api number:	03705122
Blm well:	N	Redrill can:	Not Reported
Dryhole:	Y	Well status:	P
Operator name:	Andrus and Hutcheson Inc.		
County name:	Los Angeles	Fieldname:	Any Field
Area name:	Any Area	Section:	11
Township:	01S	Range:	11W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	A & H	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000204462		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: CA Radon

### Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
91006	48	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.

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Federal Area Radon Information for Zip Code: 91006

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.100 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported



# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Wetland Inventory

Source: Department of Fish & Game

Telephone: 916-445-0411

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### Water Well Database

Source: Department of Water Resources

Telephone: 916-651-9648

#### California Drinking Water Quality Database

Source: Department of Public Health

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

## OTHER STATE DATABASE INFORMATION

#### California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

Oil and Gas well locations in the state.

### RADON

#### State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### OTHER

Airport Landing Facilities: Private and public use landing facilities  
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater  
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

### STREET AND ADDRESS INFORMATION

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**APPENDIX D**

**SANBORN MAP FINDINGS, CITY DIRECTORY SEARCH,  
ENVIRONMENTAL LIEN SEARCH, AND  
VAPOR ENCROACHMENT SCREEN SUMMARY**

Residential and Vacant  
4343 and 4371 E. Live Oak Avenue  
Arcadia, CA 91006

Inquiry Number: 4822613.3

January 09, 2017

## Certified Sanborn® Map Report



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# Certified Sanborn® Map Report

01/09/17

**Site Name:**

Residential and Vacant  
4343 and 4371 E. Live Oak Av  
Arcadia, CA 91006  
EDR Inquiry # 4822613.3

**Client Name:**

The Reynolds Group  
520 West 1st Street  
Tustin, CA 92780  
Contact: Rosanne Fischer



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by The Reynolds Group 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](http://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 #** 00FE-47BD-A7EA  
**PO #** 8318  
**Project** 8318 Bayer Arcadia



Sanborn® Library search results

Certification #: 00FE-47BD-A7EA

### 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.

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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**Residential and Vacant**

4343 and 4371 E. Live Oak Avenue  
Arcadia, CA 91006

Inquiry Number: 4822613.5  
January 09, 2017

# The EDR-City Directory Abstract



## TABLE OF CONTENTS

### SECTION

Executive Summary

Findings

City Directory Images

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2013	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2008	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2006	Haines Company	-	X	X	-
	Haines Company	X	X	X	-
2004	Haines Company	-	-	-	-
2003	Haines & Company	-	-	-	-
2001	Haines Company, Inc.	-	-	-	-
2000	Haines	-	-	-	-
1999	Haines Company	-	X	X	-
	Haines Company	X	X	X	-
1996	GTE	-	-	-	-
1995	Pacific Bell	-	X	X	-
1992	PACIFIC BELL WHITE PAGES	-	-	-	-
1991	Pacific Bell	-	-	-	-
1990	PACIFIC BELL WHITE PAGES	-	-	-	-
1986	Pacific Bell	-	-	-	-
1985	Pacific Bell	-	X	X	-
1981	Pacific Telephone	-	-	-	-
1980	Pacific Telephone	-	X	X	-
1976	R.L. Polk & Co Publishers	-	-	-	-
1975	Pacific Telephone	-	X	X	-
1972	R. L. Polk & Co.	-	-	-	-
1971	R. L. Polk & Co.	-	-	-	-

## EXECUTIVE SUMMARY

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
1970	Pacific Telephone	-	-	-	-
1969	Pacific Telephone	-	-	-	-
1967	R. L. Polk & Co.	-	-	-	-
1966	Pacific Telephone	-	X	X	-
1965	GTE	-	-	-	-
1964	Pacific Telephone	-	-	-	-
1963	Pacific Telephone	-	-	-	-
1962	Pacific Telephone	-	-	-	-
1961	R. L. Polk & Co.	-	-	-	-
1960	Pacific Telephone	-	X	X	-
1958	Pacific Telephone	-	-	-	-
1957	Pacific Telephone	-	X	X	-
1956	Pacific Telephone	-	-	-	-
1955	R. L. Polk & Co.	-	-	-	-
1954	R. L. Polk & Co.	-	-	-	-
1952	Los Angeles Directory Co.	-	-	-	-
1951	Los Angeles Directory Co.	-	-	-	-
1950	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1949	Los Angeles Directory Co.	-	-	-	-
1948	Associated Telephone Company, Ltd.	-	-	-	-
1947	Pacific Directory Co.	-	-	-	-
1946	Southern California Telephone Co	-	-	-	-
1945	R. L. Polk & Co.	-	-	-	-
1944	R. L. Polk & Co.	-	-	-	-
1942	Los Angeles Directory Co.	-	-	-	-
1940	Los Angeles Directory Co.	-	-	-	-
1939	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Company Publishers	-	-	-	-
1937	Los Angeles Directory Co.	-	-	-	-
1936	Los Angeles Directory Co.	-	-	-	-
1935	Los Angeles Directory Co.	-	-	-	-
1934	Los Angeles Directory Co.	-	-	-	-
1933	Los Angeles Directory Co.	-	-	-	-
1932	Los Angeles Directory Co.	-	-	-	-
1931	TRIBUNE-NEWS PUBLISHING CO.	-	-	-	-
1930	Los Angeles Directory Co.	-	-	-	-
1929	Los Angeles Directory Co.	-	-	-	-
1928	Los Angeles Directory Co.	-	-	-	-
1927	Los Angeles Directory Co.	-	-	-	-
1926	Los Angeles Directory Co.	-	-	-	-
1925	Los Angeles Directory Co.	-	-	-	-

## EXECUTIVE SUMMARY

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
1924	Los Angeles Directory Co.	-	-	-	-
1923	Los Angeles Directory Co.	-	-	-	-
1921	Los Angeles Directory Co.	-	-	-	-
1920	Los Angeles Directory Co.	-	-	-	-

## EXECUTIVE SUMMARY

### SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

<b><u>Address</u></b>	<b><u>Type</u></b>	<b><u>Findings</u></b>
2960 S. Mayflower Avenue	Client Entered	X
4323 E. Live Oak Avenue	Client Entered	X
4332 E. Live Oak Avenue	Client Entered	X
2955 S. Mayflower Avenue	Client Entered	X
3000 S. Mayflower Avenue	Client Entered	
4343 E. Live Oak Avenue	Client Entered	X
4371 E. Live Oak Avenue	Client Entered	X

# FINDINGS

## TARGET PROPERTY INFORMATION

### ADDRESS

4343 and 4371 E. Live Oak Avenue  
Arcadia, CA 91006

### FINDINGS DETAIL

Target Property research detail.

### E LIVE OAK AVE

#### 4343 E LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	LIVE OAK MOBILHOME PARK	Cole Information Services
2008	LIVE OAK MOBILHOME PARK	Cole Information Services
2006	CASTELLANOSAna	Haines Company
	DENVER Ray	Haines Company
	DOMBROSKI Paul	Haines Company
	LIVE OAK MBL HM PK BARRERANOeml	Haines Company

#### 4371 E LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1950	FRONTIER THE DRIVE IN ARCADIA	Pacific Telephone

### E. Live Oak Avenue

#### 4343 E. Live Oak Avenue

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	CASTELLANOSAna	Haines Company
	DENVER Ray	Haines Company
	DOMBROSKI Paul	Haines Company
	LIVE OAK MBL HM PK BARRERANOeml	Haines Company
1999	HAISLEY Gene E	Haines Company
	HIGGINS Robert A	Haines Company
	LEWIS Gary	Haines Company
	LIVE OAK MBL HM PK DENVER Ray	Haines Company
	LIVE OAK MOBILHOME	Haines Company
	MANLEY Thomas E	Haines Company
	MERCER Ronnie	Haines Company
	MOORE Frank J	Haines Company

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	ORONA Ignacro	Haines Company
	ROGERS J	Haines Company
	SANCHEZ Tony	Haines Company
	SHANKLIN W Ford	Haines Company
	VELEVIS Edward	Haines Company
	VELEVIS Mary	Haines Company
	WILLIAMS N B	Haines Company
	WITKOFISKY Jeannette	Haines Company

### 4371 E. Live Oak Avenue

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	XXXX	Haines Company
1950	FRONTIER THE DRIVE IN ARCADIA	Pacific Telephone

### LIVE OAK AVE

#### 4343 LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	HAISLEY Gene E	Haines Company
	HIGGINS Robert A	Haines Company
	LEWIS Gary	Haines Company
	LIVE OAK MBL HM PK DENVER Ray	Haines Company
	LIVE OAK MOBILHOME	Haines Company
	MANLEY Thomas E	Haines Company
	MERCER Ronnie	Haines Company
	MOORE Frank J	Haines Company
	ORONA Ignacro	Haines Company
	ROGERS J	Haines Company
	SANCHEZ Tony	Haines Company
	SHANKLIN W Ford	Haines Company
	VELEVIS Edward	Haines Company
	VELEVIS Mary	Haines Company
	WILLIAMS N B	Haines Company
	WITKOFISKY Jeannette	Haines Company

#### 4371 LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	XXXX	Haines Company



## FINDINGS

### ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

#### ASHMONT AVE

##### 2874 ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	YANG Wei	Haines Company
1999	YANG Wei	Haines Company

##### 2875 ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	TOOMALATAI Laaull	Haines Company
1999	KUGELMAN Stephen G	Haines Company

##### 2880 ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	Eddie	Haines Company
	KOUYOUMDJIAN	Haines Company
1999	GARCIA Kolin	Haines Company

##### 2881 ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	No Current Listing	Haines Company
1999	XXXX	Haines Company

##### 2884 ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	JOHNSON A Kenneth	Haines Company
1999	JOHNSON P J	Haines Company
	JOHNSON Kenneth	Haines Company
	JOHNSON A Kenneth	Haines Company
1995	Johnson P K Glendora	Pacific Bell
	Johnson P J & A Kenneth	Pacific Bell

##### 2889 ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	No Current Listing	Haines Company
1999	HERNANDEZ Andrew M	Haines Company

## FINDINGS

### 2890 ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	ABS SEAFOOD & TRADING CO	Cole Information Services
2006	LYLan	Haines Company
	HO Raymond	Haines Company
1999	DANG Tara	Haines Company
	X MAYFLOWER AV S	Haines Company

### 2902 ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	CULLEN Sally	Haines Company
1999	BURKEN John	Haines Company

### 2903 ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1995	Spec Products Inc	Pacific Bell

### 2908 ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	CHENCheng	Haines Company
1999	CHEN Cheng Sheng	Haines Company
	CHEN Cheng Sheng	Haines Company
1995	Chen Cheng Sheng	Pacific Bell

### 2909 ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	KEIJIHaoto	Haines Company
1999	HAOTO Keiji	Haines Company

### 2914 ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	HERDERING Michael	Haines Company
1999	HERDERING Michael C	Haines Company

### 2917 ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	MUSEKAMPJas	Haines Company
1999	MUSEKAMP Jas	Haines Company
1995	Musekamp Jas	Pacific Bell

## FINDINGS

### 2918 ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	VAJIFDARMohmed	Haines Company
1999	AERY Linda	Haines Company
	AERY Steve	Haines Company

### 2923 ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	KRUEGER David	Haines Company
1999	KRUEGER David	Haines Company

### 2924 ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	CASNER Joseph	Haines Company

### 2928 ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	HO Elaine	Haines Company
1999	BILLE Frances J	Haines Company

### 2929 ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	o EGGERSP	Haines Company
1999	SHANER Alec	Haines Company

### 2933 ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	TOMKINSFrederick	Haines Company
1999	TOMKINS F H	Haines Company

### 2934 ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	PATMON Philip	Haines Company
1999	OSTRANDER Sean P	Haines Company
	IRISH PLUMBING CO	Haines Company
1995	Irish Plumbing Co	Pacific Bell

### 2939 ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	LIU Ben	Haines Company
1999	LIU Xian Q	Haines Company

## FINDINGS

### 2945 ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	LU Michael	Haines Company
1999	LU Michael	Haines Company

### 2946 ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	HOOK David	Haines Company

### 2952 ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	SMITH Richard	Haines Company
1999	XXXX	Haines Company
1995	Smith K E	Pacific Bell

### E LIVE OAK AVE

#### 4273 E LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	SHADY BRADYS	Cole Information Services
2008	SHADY BRADYS	Cole Information Services
2006	SHADYBRADYS	Haines Company

#### 4275 E LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	A & B DISCOUNT FURNITURE	Cole Information Services
	LY BINH	Cole Information Services
2006	A SB DISCOUNT FURNITURE	Haines Company
		Haines Company

#### 4302 E LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	BETHENCOURT	Haines Company
	Marcla	Haines Company
1950	DORSHER J H R	Pacific Telephone
	DORSHER J H R	Pacific Telephone

#### 4305 E LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	ARCADIA SMOG & REPAIRS	Cole Information Services
2006	REPAIRS	Haines Company

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	ARCADIASMOG	Haines Company
1995	From Pasadena Telephones Call	Pacific Bell
	A i Steel Fence Co	Pacific Bell
	A i Steel Fence Co Whit	Pacific Bell
	A i Steel Fence Co No Charge To Calling Party	Pacific Bell
	A-I SMOG & TUNE	Pacific Bell
	A i Smog & Tune	Pacific Bell
	A ist Electric Company	Pacific Bell
	A i Steel Fence Co	Pacific Bell
1950	NORTON & KEAN TEXACO SERV	Pacific Telephone
	NORTON & KEAN TEXACO SERV	Pacific Telephone

### 4308 E LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	MOHAMEDAlaed In	Haines Company
1950	ELLIOTT JOHN B R	Pacific Telephone
	ELLIOTT JOHN B R	Pacific Telephone

### 4323 E LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	OTTOS LIQUOR & DELI	Cole Information Services
	OTTOS LIQUOR & DELI	Cole Information Services
2006	OTTOS LIQUOR	Haines Company
1950	JONES ED UNION SERV	Pacific Telephone
	JONES ED UNION SERV	Pacific Telephone

### 4332 E LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	ARCADIA ONE STOP FOOD MARKET	Cole Information Services
	ORGANIC HERBAL RESEARCH	Cole Information Services
	GEVORG TATARYAN	Cole Information Services
	BEST BUY 1 CIGARETTES	Cole Information Services
	ARCADIA ONE STOP FOOD MARKET	Cole Information Services
	ORGANIC HERBAL RESEARCH	Cole Information Services
	GEVORG TATARYAN	Cole Information Services
	BEST BUY 1 CIGARETTES	Cole Information Services
2006	ARCADIAFUELINC	Haines Company
1950	THOMAS COMPANIES INC	Pacific Telephone
	THOMAS COMPANIES INC	Pacific Telephone

## FINDINGS

### 4333 E LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	WESTPORT DEVELOPMENTS	Cole Information Services
2008	WESTPORT DEVELOPMENTS	Cole Information Services
2006	WESTPORT DEVLPS	Haines Company

### 4421 E LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	SLEEPING ON CLOUDS	Cole Information Services

### 4424 E LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	UHAUL NEIGHBORHOOD DEALER	Cole Information Services

### 4432 E LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	BUCKLEES	Cole Information Services
2008	BUCKLEES	Cole Information Services
2006	BUCKLEES	Haines Company
1995	Bucklees	Pacific Bell
1985	BUCKLEE S	Pacific Bell
1980	BUCKLEE S E LIVE OAK AVE ARCADIA	Pacific Telephone

### 4446 E LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	SAMS AUTO GLASS	Cole Information Services
	POWER ELECTRIC MOTORS	Cole Information Services
	MCMULLEN & ASSOCIATES	Cole Information Services
2008	JOSE GUTIERREZ	Cole Information Services
	BARNHILL & MCMULLEN	Cole Information Services
	SAMS AUTO GLASS	Cole Information Services
2006	POWER ELECTRIC MOTORS	Cole Information Services
	MOTORS SAMS AUTO GLASS	Haines Company
	THEODORE P POWER ELECTRIC	Haines Company
	MCMULLEN	Haines Company
	ASSOCIATES	Haines Company
	MCMULLEN	Haines Company
	KARLS POOLS&	Haines Company
	MCMULLEN	Haines Company
BARNHILL	Haines Company	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1995	Employees& Associates Federal Credit Union	Pacific Bell
	EMPLOYEES& ASSOCIATES FEDERAL CREDLT UNION	Pacific Bell

### 4466 E LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	G & K BURGERS	Cole Information Services
2008	G & K BURGERS	Cole Information Services
2006	G & K BURGERS	Haines Company

### 4469 E LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1950	EDWARDS SAN GABRIEL VALLEY THEATRES	Pacific Telephone
	EDWARDS SAN GABRIEL VALLEY THEATRES	Pacific Telephone
	EDWARDS SAN GABRIEL VALLEY THEATRES	Pacific Telephone
	EDWARDS SAN GABRIEL VALLEY THEATRES	Pacific Telephone

### E. Live Oak Avenue

#### 4323 E. Live Oak Avenue

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	OTTOS LIQUOR	Haines Company
1999	OTTOS LIQUOR & DEL	Haines Company
1950	JONES ED UNION SERV	Pacific Telephone
	JONES ED UNION SERV	Pacific Telephone

#### 4332 E. Live Oak Avenue

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	ARCADIAFUELINC	Haines Company
1999	LIVE OAK AUTO ELEC	Haines Company
	TEXACO	Haines Company
1950	THOMAS COMPANIES INC	Pacific Telephone
	THOMAS COMPANIES INC	Pacific Telephone



## FINDINGS

### HALSEY AVE

#### 3009 HALSEY AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1950	DESMOND HUGH K JR R ARCADIA	Pacific Telephone
	DESMOND HUGH K JR R ARCADIA	Pacific Telephone

#### 3012 HALSEY AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	GILMORE DE VERNONM HALSEY AVE ARCADIA	Pacific Telephone

### JACARANDA CIR

#### 1326 JACARANDA CIR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	a POOVAKAD Abraham	Haines Company

#### 1330 JACARANDA CIR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	CHANSze	Haines Company

### LARKFIELD AVE

#### 2858 LARKFIELD AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	CASTRO Liza	Haines Company
1999	XXXX	Haines Company
1995	GARBEDIAN EUNICE	Pacific Bell

#### 2862 LARKFIELD AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	BLOYS Joseph	Haines Company

#### 2868 LARKFIELD AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	REINHARD Bernard	Haines Company
	RIENHARD Bernard	Haines Company
1999	REINHARD Bernard K	Haines Company
	X FAIRGREEN AV S	Haines Company
1995	Doss M V	Pacific Bell

## FINDINGS

### 2872 LARKFIELD AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	VARELA Miguel	Haines Company
1999	OCAMPO David	Haines Company

### 2878 LARKFIELD AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	KOCH Robert	Haines Company
	CHU Charies	Haines Company
1999	XXXX	Haines Company

### 2882 LARKFIELD AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	MIRKAMALI Hossein	Haines Company
1999	WU Daniel	Haines Company

### 2888 LARKFIELD AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	STEWART Helen	Haines Company
1999	LARKFIELD AV 91006 CONT	Haines Company
	STEWART Albert B	Haines Company
1995	STEWART ALBERT B	Pacific Bell

### 2894 LARKFIELD AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	CHOU Dee	Haines Company
1999	X MAYFLOWER AV S	Haines Company
	CHOU Hung	Haines Company
	CHOU Dee	Haines Company
1995	t Chou Hung	Pacific Bell
	t Chou Hung	Pacific Bell
	CHOU HUNG	Pacific Bell
	CHOU HUNG	Pacific Bell

### LIVE OAK AVE

#### 4273 LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	SAY WHEN CCKTL LNGE	Haines Company

## FINDINGS

### 4274 LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	XXXX	Haines Company

### 4275 LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	A & B DISCOUNT FURNITURE	Haines Company
	X MAYFLOWER AV S	Haines Company

### 4302 LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	BETHENCOURT Thomas	Haines Company

### 4305 LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	SMOG CHECK STATIONS	Haines Company
	A 1 SMOG & TUNE	Haines Company

### 4308 LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	VINEYARD Jas H	Haines Company

### 4323 LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	OTTOS LIQUOR & DEL	Haines Company

### 4332 LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	TEXACO	Haines Company
	LIVE OAK AUTO ELEC	Haines Company

### 4333 LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	WESTPORT DEVLPS	Haines Company

### 4334 LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	XXXX	Haines Company

### 4373 LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	XXXX	Haines Company

## FINDINGS

### 4414 LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	X LYND AV	Haines Company
	XXXX	Haines Company

### 4424 LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	B & B APPLIANCE	Haines Company

### 4428 LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	XXXX	Haines Company

### 4430 LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	XXXX	Haines Company

### 4432 LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	BUCKLEES	Haines Company

### 4446 LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	SAMS AUTO GLASS	Haines Company
	MCMULLEN & ASSOCIATES TES	Haines Company
	MCMULLEN THEODORE P	Haines Company
	KARLS POOLS & SPAS	Haines Company
	INDSTRL MOTORS SUPPLY	Haines Company
	CARLS POOL SUPPLY	Haines Company

### 4466 LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	G & K BURGERS	Haines Company

### 4472 LIVE OAK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	XXXX	Haines Company

## FINDINGS

### **LYND AVE**

#### **4360 LYND AVE**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
2006	ENG Nigel	Haines Company
1999	NG Nigel K	Haines Company
1950	COLEMAN ROBT L R	Pacific Telephone
	COLEMAN ROBT L R	Pacific Telephone

#### **4366 LYND AVE**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
2006	MACIASH	Haines Company
1999	MACIAS Jessie G	Haines Company

#### **4372 LYND AVE**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
2006	o GARABEDIAN Greg	Haines Company
1985	PITMAN STEVE & DEBBIE	Pacific Bell

#### **4378 LYND AVE**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
2006	SALIM Mohammad	Haines Company
1999	SALIM Mohammad	Haines Company
1995	Salim Mohammad	Pacific Bell
1950	MCGRANE JOHN R R	Pacific Telephone
	MCGRANE JOHN R R	Pacific Telephone

#### **4384 LYND AVE**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
2006	GRIFFITHS Carol	Haines Company
1999	GRIFFITHS Carol M	Haines Company

#### **4390 LYND AVE**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
2006	STUDIO LILICA	Haines Company
	QUINONE Lisa	Haines Company
1985	EM-K PLASTICS	Pacific Bell
1950	BLODGETT ROBT W R	Pacific Telephone
	BLODGETT ROBT W R	Pacific Telephone

## FINDINGS

### 4396 LYND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	DAO Cheng	Haines Company
1999	X LIVE OAK AV E	Haines Company
	GUERRA Martin	Haines Company
1995	Guerra Miguel	Pacific Bell
	Guerra Martin	Pacific Bell
1985	GUERRA MARTIN	Pacific Bell

### 4404 LYND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	JUEI Fu	Haines Company
	NIJuel	Haines Company
1985	DUVALL RONALD	Pacific Bell
1980	ALVARADO DAVID M LYND AVE ARCADIA	Pacific Telephone
1957	HUFFAKER LEE C	Pacific Telephone
1950	HUFFAKER LEE C R	Pacific Telephone
	HUFFAKER LEE C R	Pacific Telephone

### MAYFLOWER AVE

#### 2848 MAYFLOWER AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	GABLEAU N MAYFLOWER AVE ARCADIA	Pacific Telephone
	OTLEWIS S MAYFLOWER AVE ARCADIA	Pacific Telephone

#### 2851 MAYFLOWER AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1985	MAYERS BURTON ARCADIA	Pacific Bell
1980	MAYERS BURTON MAYFLOWER AVE ARCADIA	Pacific Telephone

#### 2916 MAYFLOWER AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	CELEBRITY FAMOUS GROCER	Cole Information Services

#### 2922 MAYFLOWER AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	HONG K Huynh	Haines Company

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	HUYNH Hong	Haines Company
1999	HONG K Huynh	Haines Company
	X ASHMONT AV S	Haines Company
1995	HONG K HUYNH	Pacific Bell
1950	YOUNG L E R	Pacific Telephone

### 2950 MAYFLOWER AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	MARKO LEASING	Haines Company
	X LYND AV	Haines Company
	X LIVE OAK AV E	Haines Company

### 2955 MAYFLOWER AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	MAYFLOWER APTS CHEN Earl	Haines Company
	CHEN Halqing	Haines Company
	CHIANG Su Jong	Haines Company
	GEMIng	Haines Company
1999	MAYFLOWER APTS ARAUJO Ben Jamin	Haines Company
	CHIANG Chi	Haines Company
	HAMMAD A	Haines Company
	LAURIA Maneul Jr	Haines Company
	LEZAMA Ana	Haines Company
	MAGEES PIPE REPAIR	Haines Company
	TORRES Jorge	Haines Company
	WAI Suzanne Y	Haines Company
1995	Mayflower Apartments	Pacific Bell
	MAYFLOWER APARTMENTS	Pacific Bell
	NICOLA RAYMOND	Pacific Bell
	I NLTERVERONICAR	Pacific Bell
	ZACHARY M	Pacific Bell
	Nicola Raymond	Pacific Bell
	I Niter Veronica R	Pacific Bell
1985	BARKUS MERRIDY A	Pacific Bell
	CARROLL WM	Pacific Bell
	DEETER ROSIE	Pacific Bell
	MOWRER JAS	Pacific Bell
	SHULLO J	Pacific Bell
	TORRES LUIS J	Pacific Bell



## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1985	VERHOEF KENNETH EDW	Pacific Bell
	WARD L D	Pacific Bell
	WHITCANACK RICHARD L	Pacific Bell
1980	BELLING DAVE MAYFLOWER AVE ARCADIA	Pacific Telephone
	BROWN RANDY MAYFLOWER AVE ARCADIA	Pacific Telephone
	DRUMM LELAND A JR MAYFLOWER AVE ARCADIA	Pacific Telephone
	GRAHAM ROBERT W MAYFLOWER AVE ARCADIA	Pacific Telephone
	ISAACS LORENE MAYFLOWER AVE ARCADIA	Pacific Telephone
	MALLORY LESTER L MAYFLOWER AVE ARCADIA	Pacific Telephone
	MARGISON MARK & DEBBIE MAYFLOWER AVE ARCADIA	Pacific Telephone
	MENDEZ VICTOR MAYFLOWER AVE ARCADIA	Pacific Telephone
	NOVOA OSCAR & GEORADI MAYFLOWER AVE ARCADIA	Pacific Telephone
	RAMIREZ STEVE MAYFLOWER AVE ARCADIA	Pacific Telephone
	SALAS ROBT MAYFLOWER AVE ARCADIA	Pacific Telephone
	SBHAVE ROSE C MAYFLOWER AVE ARCADIA	Pacific Telephone
	SCIALPI TINA MAYFLOWER AVE ARCADIA	Pacific Telephone
	WARD L D MAYFLOWER AVE ARCADIA	Pacific Telephone
	WERNER ROBIN C MAYFLOWER AVE ARCADIA	Pacific Telephone
WHITCANACK RICHARD L MAYFLOWER AVE ARCADIA	Pacific Telephone	
WORKMAN MIRIAM LOIS MAYFLOWER AVE ARCADIA	Pacific Telephone	
1975	ALBERT KATHY	Pacific Telephone
	REYES ANITA	Pacific Telephone
	STEWART D J	Pacific Telephone
	WHITCANACK RICHARD L	Pacific Telephone

### 2960 MAYFLOWER AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	MARKO LEASING	Cole Information Services

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	MUNSON ENTERPRISES INC	Cole Information Services
	MARKO LEASING	Cole Information Services
	MUNSON ENTERPRISES INC	Cole Information Services
2006	MARKO LEASING	Haines Company
1995	MARKO LEASING	Pacific Bell
1985	COMPLETE CAR CO	Pacific Bell
1980	COMPLETE CAR CO MAYFLOWER AVE ARCADIA	Pacific Telephone
	COMPLETE CAR COMPANY MAYFLOWER AVE ARCADIA	Pacific Telephone

### 2968 MAYFLOWER AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1995	Marko teasing	Pacific Bell

### 3017 MAYFLOWER AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	MONTES Canos	Haines Company

### 3021 MAYFLOWER AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	a DUARTE Manuel	Haines Company
1985	SNYDER MOVING	Pacific Bell
	SNYDER DAVID E	Pacific Bell
1980	WOLFE WALTER R MAYFLOWER AVE ARCADIA	Pacific Telephone
1960	HERBOLD CLIFFORD W	Pacific Telephone
1957	HERBOLD CLIFFORD W	Pacific Telephone
1950	HERBOLD CLIFFORD W R	Pacific Telephone

### 3040 MAYFLOWER AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	GLANDON Dennis	Haines Company
1999	FAIRBANKS Rosemary	Haines Company
1985	OWEN BILLY J	Pacific Bell
1980	OWEN BILLY J MAYFLOWER AVE ARCADIA	Pacific Telephone

## FINDINGS

### **S ASHMONT AVE**

#### **2874 S ASHMONT AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1985	JONES DALTON D	Pacific Bell
1950	WRONA MAC R	Pacific Telephone
	WRONA MAC R	Pacific Telephone

#### **2880 S ASHMONT AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1985	CARRION RICHARD	Pacific Bell

#### **2884 S ASHMONT AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1985	JOHNSON P J	Pacific Bell
1957	SULLIVAN RALPH E	Pacific Telephone

#### **2889 S ASHMONT AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1957	TULLIS ROLAND F	Pacific Telephone
1950	TULLIS ROLAND F R	Pacific Telephone
	TULLIS ROLAND F R	Pacific Telephone

#### **2890 S ASHMONT AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1985	BELL GERALD H	Pacific Bell

#### **2908 S ASHMONT AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1985	NORRIS MARLYS	Pacific Bell
	RAN CONSTRUCTION CO	Pacific Bell

#### **2914 S ASHMONT AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1985	AGOSTA S	Pacific Bell

#### **2917 S ASHMONT AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1985	MUSEKAMP JAS	Pacific Bell
1950	WHITAKER WATFORD C R	Pacific Telephone
	WHITAKER WATFORD C R	Pacific Telephone

## FINDINGS

### 2918 S ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1985	WESSLER DHVID J	Pacific Bell

### 2928 S ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1985	BILLE FRANK F	Pacific Bell
	UNTAX	Pacific Bell
	BILLE FRANK F	Pacific Bell
1966	RAY ROBT V	Pacific Telephone
1960	RAY ROBT V	Pacific Telephone
1957	RAY ROBT V	Pacific Telephone
1950	RAY ROBT V R	Pacific Telephone
	RAY ROBT V R	Pacific Telephone

### 2933 S ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1966	TOMKINS FRED H	Pacific Telephone
1960	TOMKINS FRED H	Pacific Telephone
1957	TOMKINS FRED H	Pacific Telephone
1950	TOMKINS FRED H R	Pacific Telephone
	TOMKINS FRED H R	Pacific Telephone

### 2934 S ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1985	CONCIDINE STEVE & KATHY	Pacific Bell

### 2939 S ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1985	ALBERTI OLIVER P	Pacific Bell

### 2940 S ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1985	DE GROOT CHAS A	Pacific Bell

### 2945 S ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1985	PEREZ HECTOR	Pacific Bell

### 2946 S ASHMONT AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1950	ANDERSON RALPH A R	Pacific Telephone

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1950	ANDERSON RALPH A R	Pacific Telephone

### **2952 S ASHMONT AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1985	SMITH K E	Pacific Bell
1950	MCCOY FLORENCE L NURSE R	Pacific Telephone
	MCCOY FLORENCE L NURSE R	Pacific Telephone

### **S MAYFLOWER AVE**

#### **3017 S MAYFLOWER AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1957	DOWNARD LOREN W	Pacific Telephone
1950	DOWNARD LOREN W R	Pacific Telephone
	DOWNARD LOREN W R	Pacific Telephone

#### **3100 S MAYFLOWER AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1966	BAGLEY OLIVER M	Pacific Telephone

### **S. Mayflower Avenue**

#### **2955 S. Mayflower Avenue**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	MAYFLOWER APTS CHEN Earl	Haines Company
	CHEN Halqing	Haines Company
	CHIANG Su Jong	Haines Company
	GEMIng	Haines Company
1999	MAYFLOWER APTS ARAUJO Ben Jamin	Haines Company
	HAMMAD A	Haines Company
	LAURIA Maneul Jr	Haines Company
	LEZAMA Ana	Haines Company
	MAGEES PIPE REPAIR	Haines Company
	CHIANG Chi	Haines Company
	WAI Suzanne Y	Haines Company
	TORRES Jorge	Haines Company
1995	Mayflower Apartments	Pacific Bell
	I NLTERVERONICAR	Pacific Bell
	MAYFLOWER APARTMENTS	Pacific Bell
	ZACHARY M	Pacific Bell

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1995	NICOLA RAYMOND	Pacific Bell
	Nicola Raymond	Pacific Bell
	I Niter Veronica R	Pacific Bell
1985	DEETER ROSIE	Pacific Bell
	MOWRER JAS	Pacific Bell
	SHULLO J	Pacific Bell
	BARKUS MERRIDY A	Pacific Bell
	CARROLL WM	Pacific Bell
	TORRES LUIS J	Pacific Bell
	VERHOEF KENNETH EDW	Pacific Bell
	WARD L D	Pacific Bell
	WHITCANACK RICHARD L	Pacific Bell
1980	SALAS ROBT MAYFLOWER AVE ARCADIA	Pacific Telephone
	WERNER ROBIN C MAYFLOWER AVE ARCADIA	Pacific Telephone
	WARD L D MAYFLOWER AVE ARCADIA	Pacific Telephone
	SCIALPI TINA MAYFLOWER AVE ARCADIA	Pacific Telephone
	WHITCANACK RICHARD L MAYFLOWER AVE ARCADIA	Pacific Telephone
	GRAHAM ROBERT W MAYFLOWER AVE ARCADIA	Pacific Telephone
	NOVOA OSCAR & GEORADI MAYFLOWER AVE ARCADIA	Pacific Telephone
	SBHAVE ROSE C MAYFLOWER AVE ARCADIA	Pacific Telephone
	WORKMAN MIRIAM LOIS MAYFLOWER AVE ARCADIA	Pacific Telephone
	BELLING DAVE MAYFLOWER AVE ARCADIA	Pacific Telephone
	MALLORY LESTER L MAYFLOWER AVE ARCADIA	Pacific Telephone
	MARGISON MARK & DEBBIE MAYFLOWER AVE ARCADIA	Pacific Telephone
	DRUMM LELAND A JR MAYFLOWER AVE ARCADIA	Pacific Telephone
	RAMIREZ STEVE MAYFLOWER AVE ARCADIA	Pacific Telephone
	BROWN RANDY MAYFLOWER AVE ARCADIA	Pacific Telephone
	MENDEZ VICTOR MAYFLOWER AVE ARCADIA	Pacific Telephone

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	ISAACS LORENE MAYFLOWER AVE ARCADIA	Pacific Telephone
1975	REYES ANITA	Pacific Telephone
	STEWART D J	Pacific Telephone
	WHITCANACK RICHARD L	Pacific Telephone
	ALBERT KATHY	Pacific Telephone

### 2960 S. Mayflower Avenue

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	MARKO LEASING	Haines Company
1995	MARKO LEASING	Pacific Bell
1985	COMPLETE CAR CO	Pacific Bell
1980	COMPLETE CAR CO MAYFLOWER AVE ARCADIA	Pacific Telephone
	COMPLETE CAR COMPANY MAYFLOWER AVE ARCADIA	Pacific Telephone

### SPRUCE CT

#### 2911 SPRUCE CT

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	ARROYO RESEARCH INC	Cole Information Services

#### 2912 SPRUCE CT

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	HSIUNG Joseph	Haines Company

#### 2919 SPRUCE CT

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	HSIAO Joseph	Haines Company

#### 2923 SPRUCE CT

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	PUBOLSJ	Haines Company
	PUBOLS June	Haines Company

#### 2951 SPRUCE CT

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	CHILUKURI SURESH	Haines Company



## FINDINGS

### 2952 SPRUCE CT

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	SURESHBABU Paladugu	Haines Company Haines Company

### 2962 SPRUCE CT

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	LEWIS Brian	Haines Company

### 2963 SPRUCE CT

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	CHUTYANSANTAYAN ON Darunee	Haines Company Haines Company

### 2966 SPRUCE CT

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	MELWANI Nick K	Haines Company

### 2967 SPRUCE CT

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	RYE Robert	Haines Company

### 2971 SPRUCE CT

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	YAN Jerry C	Haines Company

### 2975 SPRUCE CT

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	No Current Listing	Haines Company

### 2987 SPRUCE CT

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	ANTEZANASon Ia	Haines Company

### 2991 SPRUCE CT

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	MEIRONG U	Haines Company

## FINDINGS

### TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

<u>Address Researched</u>	<u>Address Not Identified in Research Source</u>
4343 and 4371 E. Live Oak Avenue	2004, 2003, 2001, 2000, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

### ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

<u>Address Researched</u>	<u>Address Not Identified in Research Source</u>
1326 JACARANDA CIR	2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
1330 JACARANDA CIR	2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
2848 MAYFLOWER AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
2851 MAYFLOWER AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
2858 LARKFIELD AVE	2013, 2008, 2004, 2003, 2001, 2000, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
2862 LARKFIELD AVE	2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
2868 LARKFIELD AVE	2013, 2008, 2004, 2003, 2001, 2000, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920





























## FINDINGS

### **Address Researched**

4469 E LIVE OAK AVE

4472 LIVE OAK AVE

### **Address Not Identified in Research Source**

2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

2013, 2008, 2006, 2004, 2003, 2001, 2000, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

**Residential and Vacant**

4371 E. Live Oak Avenue  
Arcadia, CA 91006

Inquiry Number: 4878264.1  
March 15, 2017

# EDR Environmental Lien and AUL Search

## EDR Environmental Lien and AUL Search

The EDR Environmental Lien and AUL Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

***Thank you for your business.***

Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EDR Environmental Lien and AUL Search

### TARGET PROPERTY INFORMATION

#### ADDRESS

4371 E. Live Oak Avenue  
Residential and Vacant  
Arcadia, CA 91006

#### RESEARCH SOURCE

##### **Source 1:**

LA Recorder  
Los Angeles, CA

#### PROPERTY INFORMATION

##### **Deed 1:**

Type of Deed: deed  
Title is vested in: Live Oak 4371, LLC  
Title received from: Judy Eveyln Bayer, Successor Trustee of the Bayer Family Trust  
Deed Dated: 02/01/2017  
Deed Recorded: 02/03/2017  
Book: NA  
Page: na  
Volume: na  
Instrument: na  
Docket: NA  
Land Record Comments:  
Miscellaneous Comments:

**Legal Description:** See Exhibit

**Legal Current Owner:** Live Oak 4371, LLC

**Parcel # / Property Identifier:** 8511-018-015

**Comments:** See Exhibit

##### **Deed 2:**

Type of Deed: deed  
Title is vested in: Live Oak Community Park, LLC  
Title received from: Dan Marc Bayer, Trustee of the Raye S Q.T.I.P Trust  
Deed Dated: 09/08/2004  
Deed Recorded: 11/5/2005  
Book: NA  
Page: na  
Volume: na  
Instrument: na  
Docket: NA  
Land Record Comments:

## EDR Environmental Lien and AUL Search

Miscellaneous Comments:

**Legal Description:** See Exhibit  
**Legal Current Owner:** Live Oak Community Park, LLC  
**Parcel # / Property Identifier:** 8511-018-012  
**Comments:** See Exhibit

### **ENVIRONMENTAL LIEN**

Environmental Lien: Found  Not Found

### **OTHER ACTIVITY AND USE LIMITATIONS (AULs)**

AULs: Found  Not Found

## **Deed Exhibit 1**

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20170147806



Pages:  
0004

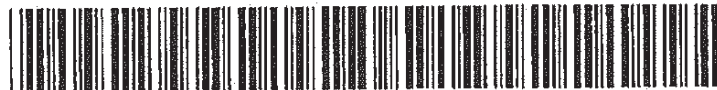
Recorded/Filed in Official Records  
Recorder's Office, Los Angeles County,  
California

02/03/17 AT 08:00AM

FEES:	28.00
TAXES:	0.00
OTHER:	0.00
PAID:	28.00



LEADSHEET



201702030210068

00013326413



008126339

SEQ:  
23

DAR - Title Company (Hard Copy)



THIS FORM IS NOT TO BE DUPLICATED

T72

E441988

RECORDER MEMO: This COPY is NOT an OFFICIAL RECORD.



2

**CHICAGO TITLE COMPANY  
COMMERCIAL DIVISION**

RECORDING REQUESTED BY

Chicago Title Company

WHEN RECORDED MAIL DOCUMENT AND  
TAX STATEMENT TO:

Mr. Daniel Bayar  
Bayer Management, Inc.  
4804 Laurel Canyon Blvd., Suite 742  
Valley Village, CA 91607

Order No. 64691B-X23  
Parcel No. 8511-018-015



SPACE ABOVE THIS LINE FOR RECORDER'S USE

**GRANT DEED**

THE UNDERSIGNED GRANTOR(s) DECLARE(s)

Documentary Transfer Tax is \$0.00

*"The grantors and the grantees in this conveyance are comprised of the same parties who continue to hold the same proportionate interest in the property, R & T 11925(d)."*

- unincorporated area
- the city of Unincorporated County of Los Angeles
- computed on full value of interest or property conveyed, or
- full value less value of liens or encumbrances remaining at the time of sale

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, **Judy Evelyn Bayar, Successor Trustee of the Bayer Family Trust dated January 25, 1993**

hereby GRANT(s) to **Live Oak 4371, LLC, a California limited liability company**

the following real property in the County of Los Angeles, State of California:

Legal Description per Exhibit "A" attached hereto and made a part hereof.

Commonly known as: 4371 East Live Oak Avenue, Arcadia, California, 91006

Dated: 2/1/17

Judy Bayar  
Judy Evelyn Bayar, Successor Trustee

RECORDER MEMO: This COPY is NOT an OFFICIAL RECORD. 8511-018-015

64691B-X23

236

3

ORDER NO.: 00064691-994-LT2-JC

Dated:

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA }  
COUNTY OF Los Angeles } SS:

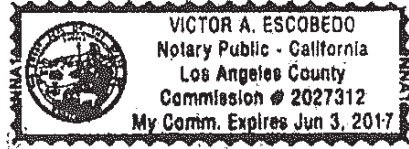
On: February 1st 2017 before me,  
Victor A. Escobedo

Notary Public, personally appeared Judy Evelyn Bayar  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies) and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature [Handwritten Signature]



RECORDER MEMO: This COPY is NOT an OFFICIAL RECORD.

4

PRELIMINARY REPORT  
YOUR REFERENCE:

Chicago Title Company  
ORDER NO.: 00064691-994-LT2-JC

**EXHIBIT "A"**

**LEGAL DESCRIPTION**

THE LAND REFERRED TO HEREIN BELOW IS SITUATED UNINCORPORATED COUNTY OF LOS ANGELES, IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

THAT PORTION OF LOT 146, ARCADIA ACREAGE TRACT, IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS SHOWN ON MAP RECORDED IN BOOK 10 PAGE 18, OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT OF INTERSECTION OF THE SOUTHERLY PROLONGATION OF THE EASTERLY LINE OF MAYFLOWER AVENUE, 80.00 FEET IN WIDTH, AS SHOWN ON MAP OF TRACT NO. 15099, RECORDED IN BOOK 319 PAGES 43 AND 44 OF SAID MAPS, AND THE NORTHERLY LINE OF LIVE OAK AVENUE, 100.00 FEET IN WIDTH; THENCE NORTH 80° 49' 38" EAST 420.00 FEET TO THE TRUE POINT OF BEGINNING; THENCE NORTH 1° 41' 42" EAST 183.29 FEET TO THE INTERSECTION WITH A LINE WHICH IS PARALLEL WITH AND DISTANT NORTHERLY 180.00 FEET MEASURED AT RIGHT ANGLES, FROM THE NORTHERLY LINE OF SAID LIVE OAK AVENUE; THENCE MEASURED AT RIGHT ANGLES, FROM THE NORTHERLY LINE OF SAID LIVE OAK AVENUE; THENCE NORTH 80° 49' 38" EAST 198.50 FEET ALONG SAID PARALLEL LINE TO THE INTERSECTION WITH THE SOUTHWESTERLY PROLONGATION OF THE SOUTHEASTERLY LINE OF SAID TRACT NO. 15099; THENCE SOUTH 20° 51' 19" WEST 207.91 FEET MORE OR LESS ALONG SAID SOUTHWESTERLY PROLONGATION TO THE INTERSECTION WITH SAID NORTHERLY LINE OF LIVE OAK AVENUE; THENCE SOUTH 80° 49' 38" WEST 129.02 FEET TO THE TRUE POINT OF BEGINNING.

APN: 8511-018-015

RECORDER MEMO: This COPY is NOT an OFFICIAL RECORD.

## **Deed Exhibit 2**

This page is part of your document - DO NOT DISCARD

04 2876881

RECORDED/FILED IN OFFICIAL RECORDS  
RECORDER'S OFFICE  
LOS ANGELES COUNTY  
CALIFORNIA  
8:04 AM NOV 05 2004

TITLE(S) : DEED



FEE

FEE \$10 ZZ  
2

D.T.T  
?

CODE  
20

CODE  
19

CODE  
9

NOTIFICATION SENT-\$4

Assessor's Identification Number (AIN)

To be completed by Examiner OR Title Company in black ink.

Number of AIN's Shown

85 11 - 018 - 012

001

THIS FORM NOT TO BE DUPLICATED



04-2876881

3

EXHIBIT "A"

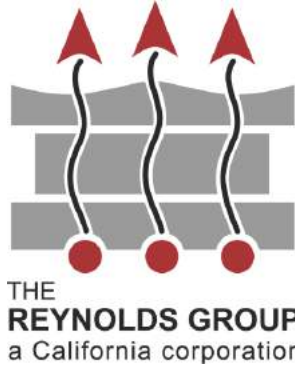
DESCRIPTION:

THAT PORTION OF LOT 146, ARCADIA ACREAGE TRACT, IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS SHOWN ON MAP RECORDED IN BOOK 10 PAGE 18 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, DESCRIBED AS FOLLOWS:

BEGINNING AT THE MOST SOUTHERLY CORNER OF LOT 106 TRACT NO. 15099, AS SHOWN ON MAP RECORDED IN BOOK 319 PAGES 43 AND 44 OF MAPS; THENCE SOUTH 0 DEGREES 09 MINUTES 27 SECONDS EAST 151.87 FEET, ALONG THE EAST LINE OF MAYFLOWER AVENUE, 80.00 FEET IN WIDTH, TO THE INTERSECTION WITH A LINE WHICH IS PARALLEL WITH, AND DISTANT NORTHERLY 150.00 FEET, MEASURED AT RIGHT ANGLES, FROM THE NORTHERLY LINE OF LIVE OAK AVENUE, 100.00 FEET IN WIDTH; THENCE NORTH 80 DEGREES 49 MINUTES 38 SECONDS EAST ALONG SAID PARALLEL LINE 175.00 FEET; THENCE SOUTH 0 DEGREES 09 MINUTES 27 SECONDS EAST 151.87 FEET TO A POINT, IN SAID NORTHERLY LINE OF LIVE OAK AVENUE DISTANT THEREON NORTH 80 DEGREES 49 MINUTES 38 SECONDS EAST 175.00 FEET FROM THE INTERSECTION OF THE SOUTHERLY PROLONGATION OF THE EAST LINE OF SAID MAYFLOWER AVENUE WITH THE NORTHERLY LINE OF SAID LIVE OAK AVENUE; THENCE NORTH 80 DEGREES 49 MINUTES 38 SECONDS EAST ALONG SAID NORTHERLY LINE 245.00 FEET; THENCE NORTH 1 DEGREE 41 MINUTES 42 SECONDS EAST 183.29 FEET TO THE INTERSECTION WITH A LINE WHICH IS PARALLEL WITH AND DISTANT NORTHERLY 180.00 FEET MEASURED AT RIGHT ANGLES FROM THE NORTHERLY LINE OF SAID LIVE OAK AVENUE; THENCE NORTH 80 DEGREES 49 MINUTES 38 SECONDS EAST ALONG SAID PARALLEL LINE 198.50 FEET TO THE INTERSECTION WITH THE SOUTHWESTERLY PROLONGATION OF THE SOUTHEASTERLY LINE OF SAID TRACT NO. 15099; THENCE NORTH 20 DEGREES 51 MINUTES 19 SECONDS EAST ALONG SAID SOUTHWESTERLY PROLONGATION 138.60 FEET TO THE MOST EASTERLY CORNER OF LOT 96 OF SAID TRACT NO. 15099; THENCE SOUTH 80 DEGREES 49 MINUTES 38 SECONDS WEST 674.83 FEET, ALONG THE BOUNDARY LINE OF SAID TRACT NO. 15099 TO THE POINT OF BEGINNING.

APN: 8511-018-012; Address: 4343 E. LIVE OAK AVE., ARCADIA, CA





**VAPOR ENCROACHMENT SCREEN  
4343 & 4371 E. Live Oak Avenue  
Arcadia**

**Prepared by: The Reynolds Group**

**2/15/2017**

## TABLE OF CONTENTS

**Executive Summary**

**Primary Map**

**Aerial Photography**

**Map Findings**

### **Disclaimer - Copyright and Trademark Notice**

The EDR Vapor Encroachment Worksheet enables EDR's customers to make certain online modifications that effects maps, text and calculations contained in this Report. As a result, maps, text and calculations contained in this Report may have been so modified. EDR has not taken any action to verify any such modifications, and this report and the findings set forth herein must be read in light of this fact. Environmental Data Resources shall not be responsible for any customer's decision to include or not include in any final report any records determined to be within the relevant minimum search distances.

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## EXECUTIVE SUMMARY

**JOHN'S UNION SERVICE**  
4323 LIVE OAK, ARCADIA, CA, 91006

1008993700

**KRANTZ UNION SERVICE**  
4323 E LIVE OAK, ARCADIA, CA, 91006

1009120322

**R & P UNION SERVICE**  
4323 LIVE OAK AVE, MONROVIA, CA, 91016

1008993465

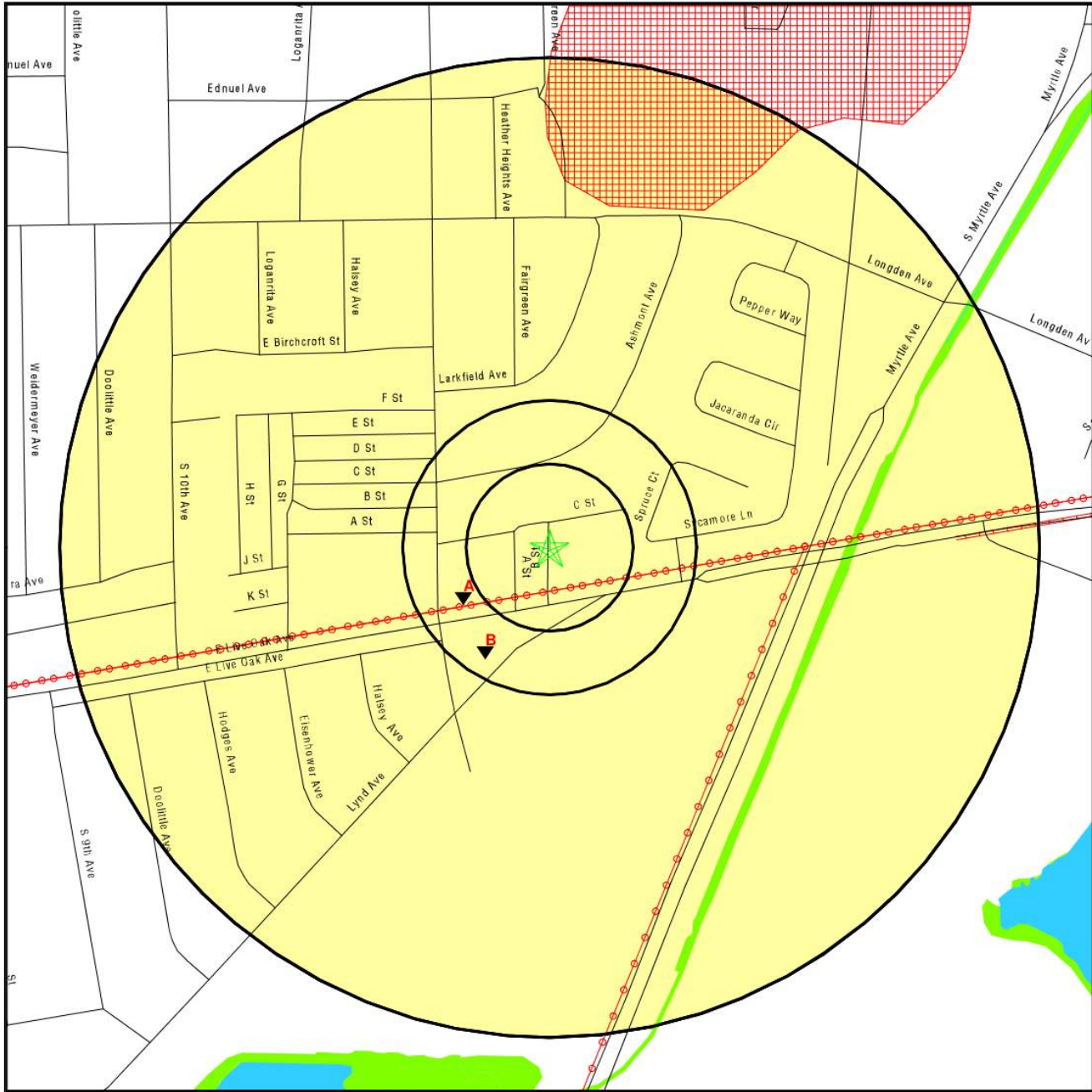
**G & G LORENA FUEL**  
4332 LIVE OAK AVE E, ARCADIA, CA, 91006

S103438025

**4332 E LIVE OAK AVE**  
4332 E LIVE OAK AVE, ARCADIA, CA, 91006

1008995324

# PRIMARY MAP - 4822613.9S

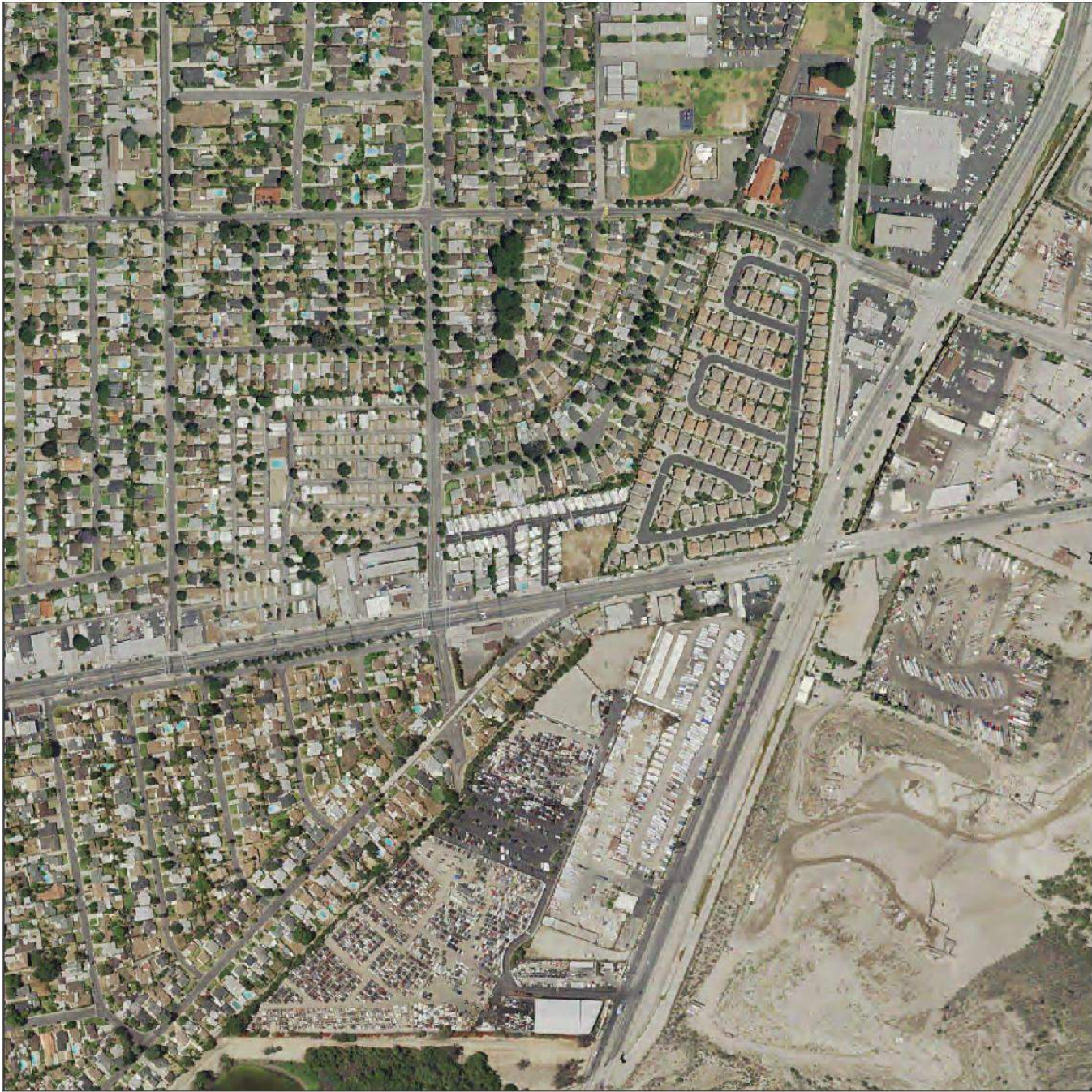


- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ▼ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- ⚡ Power transmission lines
- ⚡ Pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- ➔ Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- Areas of Concern

<p><b>SITE NAME:</b> Residential and Vacant  <b>ADDRESS:</b> 4343 and 4371 E. Live Oak Avenue                  Arcadia CA 91006  <b>LAT/LONG:</b> 34.111187 / 118.007772</p>	<p><b>CLIENT:</b> The Reynolds Group  <b>CONTACT:</b> Rosanne Fischer  <b>INQUIRY #:</b> 4822613.9s  <b>DATE:</b> January 09, 2017 8:11 pm</p>
--	--



# AERIAL PHOTOGRAPHY - 4822613.9s



0 300 0.5 Miles



**SITE NAME:** Residential and Vacant  
**ADDRESS:** 4343 and 4371 E. Live Oak Avenue  
Arcadia CA 91006  
**LAT/LONG:** 34.111187 / 118.007772

**CLIENT:** The Reynolds Group  
**CONTACT:** Rosanne Fischer  
**INQUIRY #:** 4822613.9s  
**DATE:** January 09, 2017 8:16 pm

## MAP FINDINGS

**JOHN'S UNION SERVICE**  
**4323 LIVE OAK, ARCADIA, CA, 91006**

1008993700

<b>Map ID: A1</b>	Distance: WSW <1/10 (358 ft. / 0.068 mi.)	Elevation: 2 ft. Lower Elevation 351 ft. Above Sea Level	Historical Gas Stations
-------------------	---	--	-------------------------

**Worksheet:**

## MAP FINDINGS

**KRANTZ UNION SERVICE**  
**4323 E LIVE OAK, ARCADIA, CA, 91006**

1009120322

<b>Map ID: A2</b>	Distance: WSW <1/10 (358 ft. / 0.068 mi.)	Elevation: 2 ft. Lower Elevation 351 ft. Above Sea Level	Historical Gas Stations
-------------------	---	--	-------------------------

**Worksheet:**



## MAP FINDINGS

**R & P UNION SERVICE**  
**4323 LIVE OAK AVE, MONROVIA, CA, 91016**

1008993465

<b>Map ID: A3</b>	Distance: WSW <1/10 (358 ft. / 0.068 mi.)	Elevation: 2 ft. Lower Elevation 351 ft. Above Sea Level	Historical Gas Stations
-------------------	---	--	-------------------------

**Worksheet:**

## MAP FINDINGS

**G & G LORENA FUEL**  
4332 LIVE OAK AVE E, ARCADIA, CA, 91006

S103438025

<b>Map ID: B4</b>	Distance: SSW <1/10 (438 ft. / 0.083 mi.)	Elevation: 3 ft. Lower Elevation 350 ft. Above Sea Level	State and tribal leaking storage tank lists Other Standard Environmental Records
-------------------	---	--	---

**Worksheet:**

## MAP FINDINGS

4332 E LIVE OAK AVE  
4332 E LIVE OAK AVE, ARCADIA, CA, 91006

1008995324

<b>Map ID: B5</b>	Distance: SSW <1/10 (438 ft. / 0.083 mi.)	Elevation: 3 ft. Lower Elevation 350 ft. Above Sea Level	Historical Gas Stations
-------------------	---	--	-------------------------

**Worksheet:**

**APPENDIX E**

**SELECT FILE REVIEW DOCUMENTATION**



MOBILE HOME SET-UP

4343 E. LIVE OAK

# APPLICATION FOR BUILDING PERMIT

COUNTY OF LOS ANGELES

Division 4 BUILDING AND SAFETY B-5

**WORKERS COMPENSATION DECLARATION**  
I hereby certify that I have a certificate of (covered) to (self) (others) (both) (Workers' Compensation Insurance) or (Certificate of Insurance) (Sec. 3600, Lab. C.)

Certificate copy to hereby furnished.  
 Certificate copy to be filed with the county building inspector.

**CERTIFICATE OF EXEMPTION FROM WORKERS COMPENSATION INSURANCE**  
This certificate shall not be completed if the permit is for one building (Section 31100) or less.

I hereby certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner not in substance subject to the Workers' Compensation Laws.

Applicant: Pauline  
I, the undersigned, if, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

**LICENSED CONTRACTORS DECLARATION**  
I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Number: 20031 Lic. Class: CL1  
Contractor: So-Cal MHS Date: 8-2-82  
 I am exempt from the licensing requirements as I am a licensed architect or a registered professional engineer acting in my professional capacity (Section 7051, Business and Professions Code).

**OWNER-BUILDER DECLARATION**  
I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code):

- I, as owner of the property, or my employees with wages at their sole compensation, will do the work and the structure is not intended or offered for sale (Section 7044, Business and Professions Code).
- I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code).

**FINANCIAL LENDING AGENCY**  
I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C.).

Lender's Name: \_\_\_\_\_  
Lender's Address: \_\_\_\_\_

I certify that I have read this application and state that the above information is correct. I agree to comply with all County ordinances and State laws relating to building construction, and hereby authorize representatives of this County to enter upon the above-mentioned property for inspection purposes.

Signature of Applicant or Agent: Pauline Date: 8-2-82

**FOR APPLICANT TO FILL IN**

BUILDING ADDRESS: 4343 East Live Oak Ave.  
CITY: Arcadia, Ca. ZIP: 91006  
SITE OF LOT: 531 x 264 NO. OF BLDGS. ALLOWED ON LOT: 1  
TRACT: \_\_\_\_\_ BLOCK: \_\_\_\_\_ SUBDIVISION: B-5  
OWNER: Don Bayer TEL. NO.: \_\_\_\_\_  
ADDRESS: 630 West Lemon.  
CITY: Arcadia, Ca. ZIP: 91006  
ARCHITECT OR ENGINEER: \_\_\_\_\_ TEL. NO.: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
CONTRACTOR: So-Cal MHS TEL. NO.: 734 3921  
ADDRESS: 149 N. Maple LIC. NO.: 300231  
CITY: CORONA LIC. CLASS: CL1  
NO. FT. SIZE: \_\_\_\_\_ NO. OF STORIES: \_\_\_\_\_ NO. OF FAMILIES: \_\_\_\_\_ CHECK ONE: \_\_\_\_\_  
DESCRIPTION OF WORK: Mobile Home set up  
NEW  ADD  ALTER  REPAIR  DEMOL.   
USE OF EXISTING BLDG. \_\_\_\_\_  
APPLICANT (OWNER): Laurie Barnes TEL. NO.: 274 3921  
ADDRESS: 188 N. Maple  
PRESENT BUILDING ADDRESS: \_\_\_\_\_  
LOCALITY: \_\_\_\_\_  
MOVING CONTRACTOR: \_\_\_\_\_ TEL. NO.: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
REGULATED SETBACK: YARD: \_\_\_\_\_ HWY: \_\_\_\_\_ TOTAL SETBACK FROM PROP. LINE: \_\_\_\_\_ EXIST. WIDTH: \_\_\_\_\_  
FRONT P.I.: \_\_\_\_\_  
SIDE P.I.: \_\_\_\_\_  
P.C. Fee \$: \_\_\_\_\_ Permit Fee: \_\_\_\_\_  
Investigation Fee: \_\_\_\_\_ Insurance: 1 hour 11 fee  
Total Fee: 40.00

BUILDING ADDRESS: 4343 E. Live Oak  
LOCALITY: Arcadia  
NEAREST CROSS ST.: Maple  
ASSESSOR: \_\_\_\_\_ PARCEL: \_\_\_\_\_  
LHA ZONE: \_\_\_\_\_ MAP NO.: 7500 PAGE: 2-85  
DISTRICT: 5 CITY CODES: 1 FIRE ZONE: \_\_\_\_\_  
STATISTICAL CLASSIFICATION: CLASS NO. 93 OWELL UNITS: \_\_\_\_\_  
SPECIAL CONDITIONS: \_\_\_\_\_  
RECORDED BY: Smith

SEWER MAP: \_\_\_\_\_  
VALUATION: \$ \_\_\_\_\_  
FINAL DATE: 8/4/82  
FINAL BY: \_\_\_\_\_

VALIDATION: \_\_\_\_\_

55327A  
H 00001  
1 00000  
00000000  
0802-82

INSPECTOR COPY

SEE REVERSE FOR EXPLANATORY LANGUAGE



Department of Public Works  
dpw.lacounty.gov

1-11-17 NO FILES PER DAVID  
AT ENVIRONMENTAL PROGRAMS  
LADPW PHONE CALL



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- [Closure](#)
- [Unauthorized Releases](#)
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- [Report Fraud](#)

Contact Us

4343 E. LIVE OAK, ARCADIA

Headquarters

County of Los Angeles Department of Public Works  
Environmental Programs Division  
900 S. Fremont Avenue  
Annex Building, 3rd Floor  
Alhambra, CA 91803-1331

Click here for [map to DPW](#)

Public Counter: (626) 458-3517  
Fax: (626) 458-3569  
TDD: (626) 282-7829

Public Counter hours are 7 a.m. to 5 p.m., Monday through Thursday

Field Facilities

Inspectors are available from 8 a.m. to 9:30 a.m., Monday through Friday, unless otherwise noted

Antelope Valley

335-A East Avenue K-6  
Lancaster, CA 93535-4645  
(661) 723-4337  
1<sup>st</sup> Wednesday of every month, 8 a.m. to 12 p.m.  
All other times refer inquiries to Santa Clarita Area Office

Lomita Area

24320 S. Narbonne Avenue  
Lomita, CA 90717-1194  
(310) 534-4862

City of Commerce

2535 Commerce Way  
Commerce, CA 90040-1487  
(323) 887-4456

Santa Clarita Area

23757 W. Valencia Boulevard  
Santa Clarita, CA 91355-2192  
(661) 222-2953

San Gabriel Valley

125 S. Baldwin Avenue  
Arcadia, CA 91007-2652  
(626) 574-0962

Whittier Area

13523 E. Telegraph Road  
Whittier, CA 90605-3437  
(562) 906-8426

East Los Angeles Area

4801 E. 3<sup>rd</sup> Street  
Los Angeles, CA 90022-1601  
(323) 881-7031

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Managed by the County of Los Angeles Department of Public Works, Environmental Programs Division

Toll Free Phone Number: 1(888) CLEAN LA

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**Subject:** RE: File Review Request - 4343 E. Live Oak Avenue, Arcadia/Tracking No 2011011111  
**Date** : Mon, 23 Jan 2017 15:53:00 -0800  
**From** : WB-RB4-PublicRecords <[RB4-PublicRecords.RB4-PublicRecords@waterboards.ca.gov](mailto:RB4-PublicRecords.RB4-PublicRecords@waterboards.ca.gov)>  
**To** : Rosanne Fischer <[fischer@reynolds-group.com](mailto:fischer@reynolds-group.com)>  
**Cc** : "Gallardo, [Laura@Waterboards](mailto:Laura@Waterboards)" <[Laura.Gallardo@waterboards.ca.gov](mailto:Laura.Gallardo@waterboards.ca.gov)>

The Regional Board has reviewed its files and has concluded that it does not have any records that are responsive to your request.

-----Original Message-----

From: Rosanne Fischer [<mailto:fischer@reynolds-group.com>]  
Sent: Wednesday, January 11, 2017 2:08 PM  
To: WB-RB4-PublicRecords  
Subject: File Review Request - 4343 E. Live Oak Avenue, Arcadia

I am performing a Phase I Environmental Site Assessment (ESA) at the subject Property. Do you have any files related to the address? Please let me know and, if so, I'll set an appointment to review them. Thanks!

Rosanne Fischer  
Registered Environmental Property Assessor #419564 THE REYNOLDS GROUP  
714-730-5397 Ext. 123  
[fischer@reynolds-group.com](mailto:fischer@reynolds-group.com)







Department of Conservation

Division of Oil, Gas & Geothermal Resources Well Finder

Find By Location

Find My Current Location

or

Street: 4343 E. Live Oak Avenue

City: Arcadia

Zip:

Find

Display a 1500 foot buffer

Buffer radius is limited to 10 mi (52800ft).

Find By API

Find By Lat, Long

Find By PLSS

Find By Oil/Gas Field

Data (Layers):

Notices & Permits

DOGGR Wells

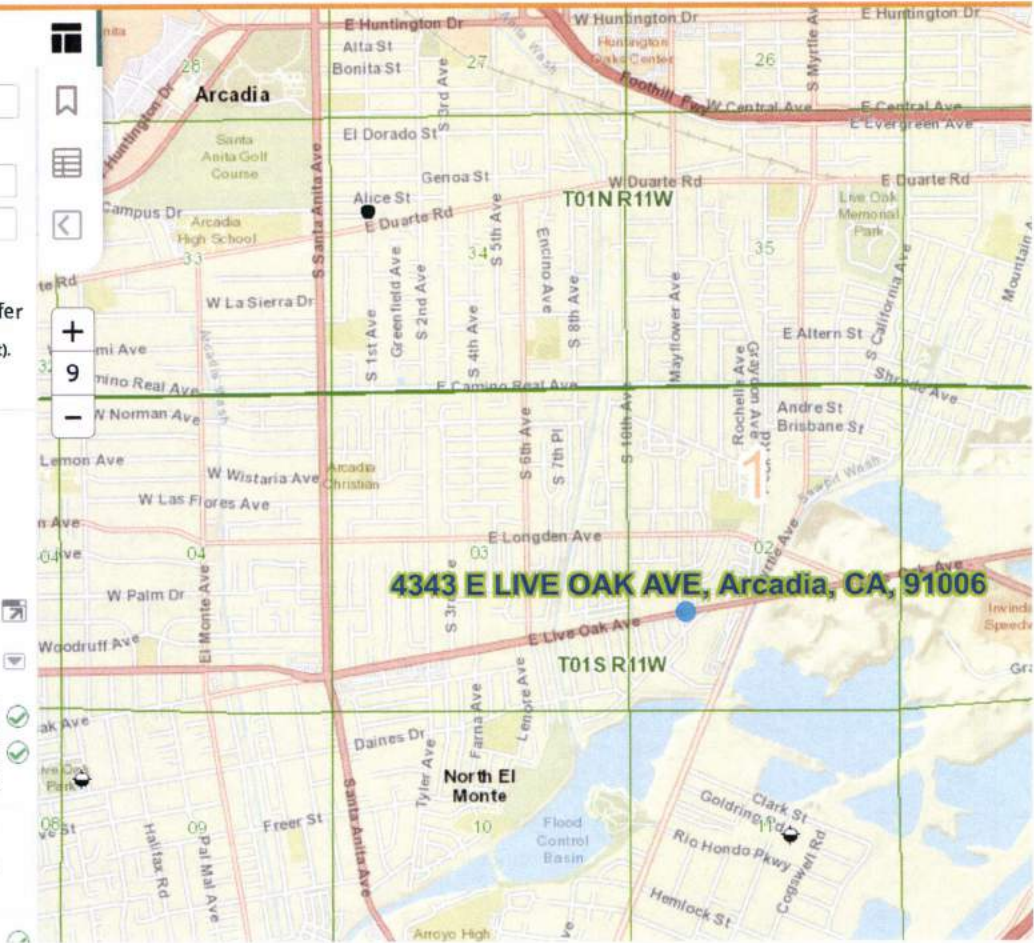
Label: API# Well# Detailed

EPA Wells for Aquifer Exemption Review

Enhanced Oil Recovery Wells

Disposal Wells

Oil/Gas Fields







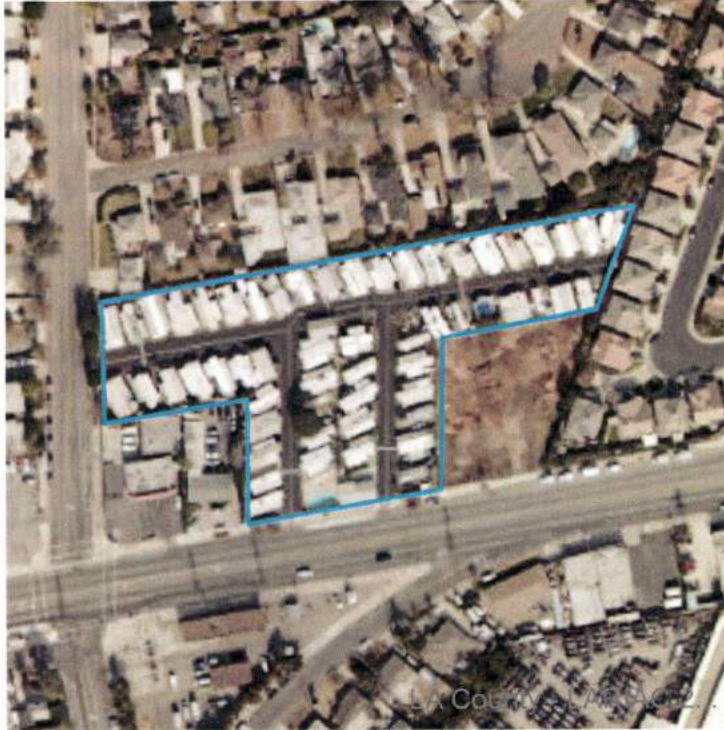
# Parcel Profile Report

Report date: Tuesday, October 04, 2016 9:37 AM



APN: 8511-018-012

Address: 4343 E LIVE OAK AVE, ARCADIA, CA 91006



**Site Address :** 4343 E LIVE OAK AVE

**City :** ARCADIA CA 91006

**Lot Size Sq Ft :** 0

**Lot Size Acres :** 0

**Use Code :** 0901

**Use Type :** Residential

**Use Description :** Mobile Home Parks

**Legal Description :** ARCADIA ACREAGE TRACT LOT COM AT SW COR OF LOT 106 TR # 15099 TH S ON E LINE OF MAYFLOWER AVE 151.87 FT TH E PARALLEL WITH N LINE OF LIVE OAK AVE 175 FT TH SEE ASSESSOR MAPBOOK FOR MISSING PORTION LOT 146

**Tax Rate Area :** 06261

**Transfer Date :** 2004-11-05

**Building 1**

**Design Type :** 090X

**Bedrooms :** 0

**Year Built:** 1956

**Baths :** 0

**Effective Yr:** 1956

**Bldg Sq Ft :** 0

**Units:** 56

**Additional Buildings**

**Bldg 2 Sq Ft :** 1,056

*NOTE: The information and materials contained herein are provided as a public service to provide planning and zoning information for the unincorporated areas of Los Angeles County. Parcel information shown on this page is from the Assessor's Office. The County has made every reasonable effort to ensure the accuracy of the information and materials contained within.*

APN: 8511-018-012

Address: 4343 E LIVE OAK AVE, ARCADIA, CA 91006

**CSD Area Specific**

No results found.

**Census Tract (2010)**

TRACT: 4314.00

TOTAL POPULATION: 3970

**City and Community**

NAME: SOUTH MONROVIA ISLANDS

SQ MILES: 0.686627

JURISDICTION: UNINCORPORATED AREA

**Community Standards District (CSD)**

No results found.

**DRP Field Office Service Area**

OFFICE: SAN GABRIEL VALLEY OFFICE

OFFICE CODE: PBSG

**Equestrian District (EQD)**

No results found.

**Land Use Policy - General Plan 2035**

PLAN\_: H30

PLAN\_LEG: H30 - Residential 30

COMM\_NAME: SOUTH MONROVIA ISLANDS

LU\_TYPE: RESIDENTIAL

ACRES: 3.578366

**Land Use Policy - Comm. / Area Plan**

No results found.

**Leased Parcel (Marina Del Rey)**

No results found.

**Rural Outdoor Lighting District (Dark Skies)**

No results found.

**Significant Ridgeline**

No results found.

**Supervisory District**

Name: District 5

**Transit Oriented District (TOD)**

No results found.

**Watershed**

NAME: LOS ANGELES RIVER

**Zoned District (ZD)**

ZONED DISTRICT NAME: SOUTH ARCADIA

**Zoning**

Zone: R-3

Zone Description: Limited Density Multiple Residence

Zone Category: R-3-(U)

**Zoning Map Grid**

MAP NUMBER: 150Z285

**Zoning Map Grid**

MAP NUMBER: 153Z285



4371 E. LIVE OAK

DEPARTMENT OF BUILDING AND SAFETY  
COUNTY OF LOS ANGELES  
WM. S. FOX, CHIEF ENGINEER

APPLICATION FOR PERMIT  
NY 23194 **BUILDING**

1

FOR APPLICANT TO FILL IN

BUILDING ADDRESS: 4371 E. Live Oak  
 LOCALITY: Arcadia  
 NEAREST CORNER: S. Mayflower Ave  
 OWNER: H. N. Barger  
 MAIL ADDRESS: 11 E. Live Oak  
 CITY: Arcadia TEL. NO. DO 7-3551  
 ARCHITECT OR ENGINEER: [blank] TEL. NO. [blank]  
 ADDRESS: [blank] TEL. NO. [blank]  
 CONTRACTOR: S. F. Owens TEL. NO. FL 51696  
 ADDRESS: 945 Wilton Dr. Glendale  
 LEGAL DESCRIPTION: [blank] LOT NO. 146 BLOCK [blank]  
 TRACT: Arcadia C-10000  
 SITE OF LOT: 150x175 NO. OF BLDG. NOW ON LOT: None  
 USE OF EXISTING BLDG.: None NO. OF FAMILIES: [blank] NO. OF ROOMS: [blank]

DESCRIPTION OF WORK

NEW	<input checked="" type="checkbox"/>	ALTERATION	<input type="checkbox"/>	ADDITION	<input type="checkbox"/>
REPAIR	<input type="checkbox"/>	MOVING	<input type="checkbox"/>	DEMOLISH	<input type="checkbox"/>
NO. FT. WIDE	99.6	NO. OF ROOMS	2	STORIES	1
WALL COVERING	Siding 4 stories	ROOF COVERING	Concrete		
USE OF NEW BUILDING	Drinks Tea Restaurant				

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION.

SIGNATURE OF PERMITTEE: D. F. Owens  
AUTHORIZED AGT. [blank]

TRADE & CONSTRUCTION FEE: \$ 9600.00

P.C.B. FEE: 11.00  
VALUATION FEE: 22.00

FOR OFFICE USE ONLY

DISTRICT NO. 5 PLAN OR NO. 7815 PERMIT NO. 57358  
 RECEIVED BY: [initials] DATE OF APPL. 5-20-49. DATE ISSUED 6-6-49  
 BUILDING ADDRESS: 4371 E. Live Oak  
 LOCALITY: Arcadia  
 NEAREST CORNER: S. Mayflower Ave  
 FIRE ZONE: [blank] NO. OF PLANS: [blank] TYPE: [blank] GROUP: F  
 BLDG. SETBACK LINE: 50' c/c S. Live Oak  
 APPROVED BY: [initials] DATE: [blank]  
 USE ZONE: C-3 APPROVED BY: [blank] DATE: [blank]

CORRECTIONS

2-25-55  
E. Live Oak  
[handwritten notes and signatures]

ORIGINAL

APPROVALS

FOUNDATION LOCATION FORMS MATERIALS	INSPECTOR	DATE
FRANCE FIRE STOPPING BRACING BOLTS	[initials]	7-19
LATH. INT.	[initials]	5/3/49
LATH. EXT.	[initials]	
PLASTER. INT.	[initials]	
PLASTER. EXT.	[initials]	
FINAL	[initials]	

104475C 5-21



4371 E. LIVE OAK  
SEPTIC SYSTEM  
7-5-49

**Break into M/H.**  
76R222 612 15M 12-48

Address 4371 East Live Oak Ave.

Lot 146

Block Tract Arcadia Acreage

Contractor Economy Septic Tank Co.

Owner H. N. Berger

~~STUCK~~ ~~REPAIR~~ ~~CONNECTION~~ Break into Manhole.

Sta. of ~~STUCK~~ M/H. 52+64.12

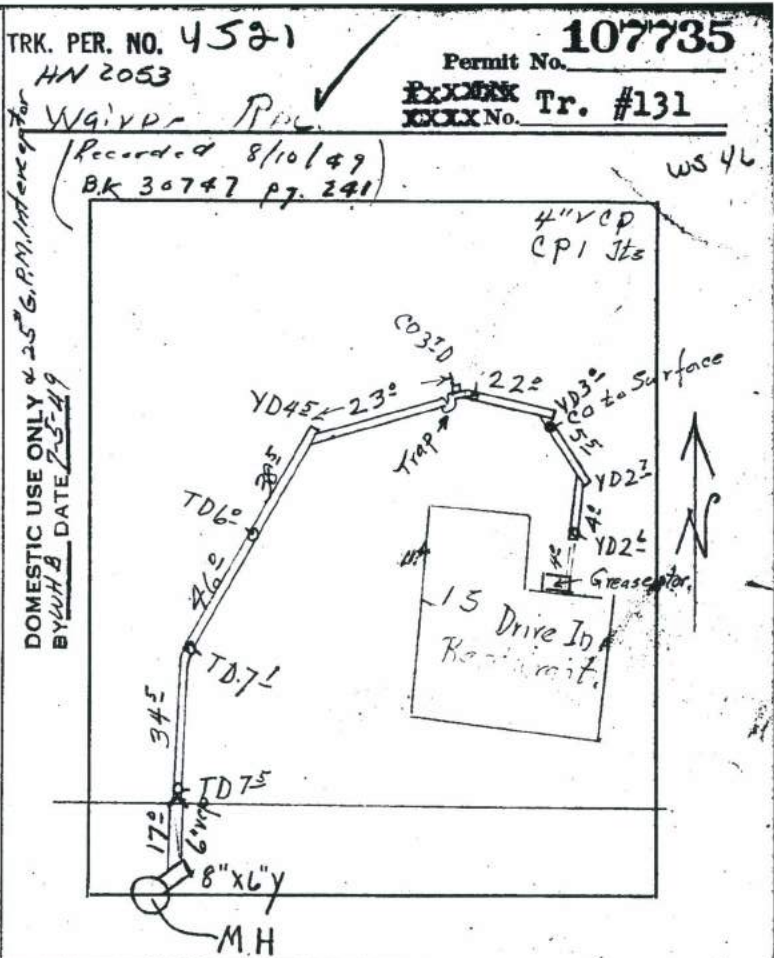
Between Peck Rd.,  
and Mayflower Ave.

Date Permit Issued 7-5-'49

Date Inspected 7-15-49

By Quist Inspector

Remarks OK - Conn & Tested





4371 E. LIVE OAK

DEPARTMENT OF BUILDING AND SAFETY  
CITY OF LOS ANGELES

APPLICATION FOR PERMIT  
**ELECTRIC**

DISTRICT NO.	GROUP	ZONE	PERMIT FEE
RECEIVED BY	READY FOR FIRST INSPECTION	DATE ISSUED	

APPLICANT FILL IN HEAVILY HATCHED PORTION ONLY

CIRCUIT	LIGHT OUTLETS					SW.	RANGES	HOT
	A	B	C	D	E			
<p>DESCRIPTION OF WORK</p> <p>NUMBER OF OUTLETS OR CIRCUITS LOCATION BY ROOM</p> <p><i>Franklin Falls</i></p> <p><i>Plumbing</i></p>								

JOB ADDRESS *4371 E. Live Oak*

CITY *Los Angeles*

OWNER NAME *Robert W. Berger*

PHONE NO.

I AM THE LEGAL POSSESSOR OF THE ABOVE JOB ADDRESS COUNTY CERTIFICATE OF QUALIFICATION

I AM THE LEGAL OWNER OF THE PROPERTY DESCRIBED ABOVE

CORRECTIONS

TOTAL		
NO. OF OUTLETS	2	10
NO. OF FIXTURES	0	
NO. OF MOTORS	0	
NO. OF SIGNS TRANS.	0	
NO. OF RANGES OR HEATERS	1	
MISCELLANEOUS	0	
PERMIT FEE	0	1.00
TOTAL FEE	0	1.00

APPROVALS		DATE	INSPECTOR'S NAME
CONDUIT			
WIRING			
FIXTURES			
POWER			
UTILITY CO. NOTIFIED			
FINAL			

ORIGINAL







4371 E. LIVE OAK

DEPARTMENT OF BUILDING AND SAFETY  
COUNTY OF LOS ANGELES  
Wm. J. FOX, CHIEF ENGINEER

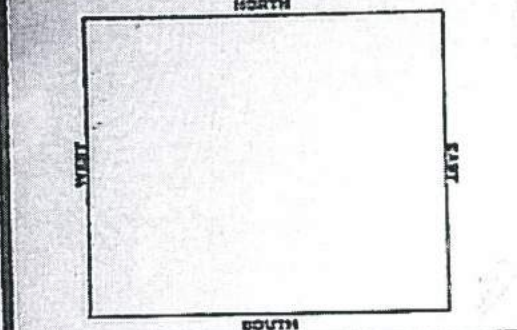
APPLICATION FOR PERMIT  
**PLUMBING** 1

NATURE OF INSTALLATION			DISTRICT NO.	GROUP	ZONE	PERMIT NO.
SEWER	FIXTURES	COMPLETE	5	F	C2	31091
HEATER	CESSPOOL	SEPTIC TANK	RECEIVED BY	READY FOR FIRST INSPECTION		DATE ISSUED
GAS	MISCELLANEOUS		1/18			6-23-49

APPLICANT FILL IN HEAVILY OUTLINED PORTION ONLY

PLUMBER	NAME	Belvedere Plumbing	JOB ADDRESS	4371 E Live Oak
	ADDRESS	917 So Magnolia	LOCALITY	Country
	CITY	Monrovia, Cal. 91041	NEAREST CROSS ST.	Peak Rd
	COUNTY	LOS ANGELES	EXPIRES	6-30-49
OWNER	NAME	Otis Farrell		
	MAIL ADDRESS	745 Melton Dr		
	CITY	Blondora	TEL. NO.	7151696
	I AM THE LEGAL OWNER OF THE ABOVE LOS ANGELES COUNTY CERTIFICATE OF QUALIFICATION.			

LOCATION OF SEPTIC TANK, OR CESSPOOL



I AM THE LEGAL OWNER OF THE ABOVE LOS ANGELES COUNTY CERTIFICATE OF QUALIFICATION.  
PLUMBER  
I AM THE LEGAL OWNER OF THE PROPERTY DESCRIBED ABOVE.  
OWNER

**CORRECTIONS**

7/10/49

ORIGINAL

DESCRIPTION OF WORK

BATH TUB	_____	FURNACE	_____
SHOWER	_____	DISHWASHER	_____
2 LAVATORY	_____	REFRIGERATOR	_____
KITCHEN SINK	_____	WATER SOFTENER	_____
1 FLOOR SINK <i>Pf</i>	_____	BAND TRAP	_____
FLOP SINK	_____	3 FLOOR DRAIN	_____
WASH TRAY	_____	URINAL	_____
2 WATER CLOSET	_____	DRINKING FOUNTAIN	_____
1 WATER HEATER	_____	CENTAL LAVATORY	_____
1 WATER GAS OUTL	_____	SODA FOUNTAIN	_____
1 Fountain	_____	1 <i>grease trap</i>	_____
13 TOTAL NUMBER OF FIXTURES	_____	1 <i>Pf. in kitchen</i>	_____

**APPROVALS**

	DATE	INSPECTOR'S NAME
ROUGH PLUMBING	7/10/49	P. J. ...
GAS PIPING		
GAS VENT		
CESSPOOL		
SEPTIC TANK		
SEWER		
UTILITY CO. NOTIFIED		
FINAL		

700



8-6-52 SIGN

4371 E. LIVE OAK

DEPARTMENT OF BUILDING AND SAFETY  
COUNTY OF LOS ANGELES  
WH. J. FOX, CHIEF ENGINEER

BUILDING PERMIT

DEPARTMENT OF BUILDING AND SAFETY  
COUNTY OF LOS ANGELES  
WH. J. FOX, CHIEF ENGINEER

APPLICATION FOR PERMIT  
**BUILDING** 1

**FOR APPLICANT TO FILL IN**

BUILDING ADDRESS: 4371 E. Live Oak

LOCALITY: Arcadia

NEAREST CORNER: Mayflower

OWNER: Frontier Drive In

MAIL ADDRESS: 4371 E. Live Oak Ave.

CITY: Arcadia TEL. NO.

ARCHITECT OR ENGINEER: TEL. NO.

ADDRESS: Noon Products Signs

CONTRACTOR: YEAR 2-6935

ADDRESS: 1240 So. Chapel Ave. Alhambra

LEGAL DESCRIPTION: LOT NO. P-1114 BLOCK

TRACT: Arcadia

SIZE OF LOT: 150 x 173 NO. OF BLDGS. NOW ON LOT

USE OF EXISTING BLDG.: NO. OF FAMILIES NO. OF ROOMS

**DESCRIPTION OF WORK**

NEW	ALTERATION	ADDITION
REPAIR	MOVING	DEMOLISH
BL. FT. CITY	NO. OF BLDGS.	STERIED
WALL COVERING	ROOF COVERING	
USE OF NEW BUILDING	NOON SIGN	

**FOR OFFICE USE ONLY**

DISTRICT NO. 5 PLAN OR. NO. PERMIT NO. 195704B

RECEIVED BY: [Signature] DATE OF APPL. 8-6-52 DATE ISSUED 8-6-52

BUILDING ADDRESS: 4371 E. Live Oak Ave.

LOCALITY: Arcadia

NEAREST CORNER: Mayflower

FIRE ZONE NO. OF PLANS TYPE GROUP 51501

BLDG. DETRACK LINE 50 @ 55 CRD. NO.

APPROVED BY: [Signature] DATE

LINE ZONE APPROVED BY: [Signature] DATE

2053 CORRECTIONS

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION.

SIGNATURE OF PERMITTEE: Noon Products Signs

AUTHORIZED AGT. [Signature]

TRAFFIC-3 3-10 \$ 750.00

VALUATION

P. C. B. FEE \$ 5.00

**APPROVALS**

FOUNDATION, LOCATION FOUND. MATERIALS	INSPECTOR	DATE
FRAME, FIRE STOPP. BRACING, BOLTS		
LATH. INT.		
LATH. EXT.		
PLASTER, INT.		
PLASTER, EXT.		
FINAL		

ORIGINAL



Department of Public Works  
dpw.lacounty.gov

1-11-17 NO FILES PER DAVID  
AT ENVIRONMENTAL PROGRAMS  
LADPW PHONE CALL



Contact Us

4371 E. LIVE OAK, ARCADIA

Home

- [Hot Topics](#)
- [Los Angeles County Certified Unified Program Agency \(CUPA\)](#)
- [Jurisdiction](#)
- [Underground Storage Tank \(UST\) Unified Facility Permit](#)
- [Transfer Of UST Ownership/Operator](#)
- [New Construction/Modification/Addendum/ UST Addition To UST Unified Program Permit](#)
- [Closure](#)
- [Unauthorized Releases](#)
- [Electronic Notification](#)
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- [Online File Review-UST/IW/SW](#)
- [Contact Us](#)
- [Report Fraud](#)

Headquarters

County of Los Angeles Department of Public Works  
Environmental Programs Division  
900 S. Fremont Avenue  
Annex Building, 3rd Floor  
Alhambra, CA 91803-1331

[Click here for map to DPW](#)

Public Counter: (626) 458-3517  
Fax: (626) 458-3569  
TDD: (626) 282-7829

Public Counter hours are 7 a.m. to 5 p.m., Monday through Thursday

Field Facilities

Inspectors are available from 8 a.m. to 9:30 a.m., Monday through Friday, unless otherwise noted

Antelope Valley

335-A East Avenue K-6  
Lancaster, CA 93535-4645  
(661) 723-4337  
1<sup>st</sup> Wednesday of every month, 8 a.m. to 12 p.m.  
All other times refer inquiries to Santa Clarita Area Office

Lomita Area

24320 S. Narbonne Avenue  
Lomita, CA 90717-1194  
(310) 534-4862

City of Commerce

2535 Commerce Way  
Commerce, CA 90040-1487  
(323) 887-4456

Santa Clarita Area

23757 W. Valencia Boulevard  
Santa Clarita, CA 91355-2192  
(661) 222-2953

San Gabriel Valley

125 S. Baldwin Avenue  
Arcadia, CA 91007-2652  
(626) 574-0962

Whittier Area

13523 E. Telegraph Road  
Whittier, CA 90605-3437  
(562) 906-8426

East Los Angeles Area

4801 E. 3<sup>rd</sup> Street  
Los Angeles, CA 90022-1601  
(323) 881-7031

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Toll Free Phone Number: 1(888) CLEAN LA

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**Subject:** RE: File Review Request - 4371 E. Live Oak Avenue, Arcadia, CA/Tracking No 2017011112  
**Date** : Mon, 23 Jan 2017 15:52:00 -0800  
**From** : WB-RB4-PublicRecords <[RB4-PublicRecords.RB4-PublicRecords@waterboards.ca.gov](mailto:RB4-PublicRecords.RB4-PublicRecords@waterboards.ca.gov)>  
**To** : Rosanne Fischer <[fischer@reynolds-group.com](mailto:fischer@reynolds-group.com)>  
**Cc** : "Gallardo, [Laura@Waterboards](mailto:Laura@Waterboards)" <[Laura.Gallardo@waterboards.ca.gov](mailto:Laura.Gallardo@waterboards.ca.gov)>

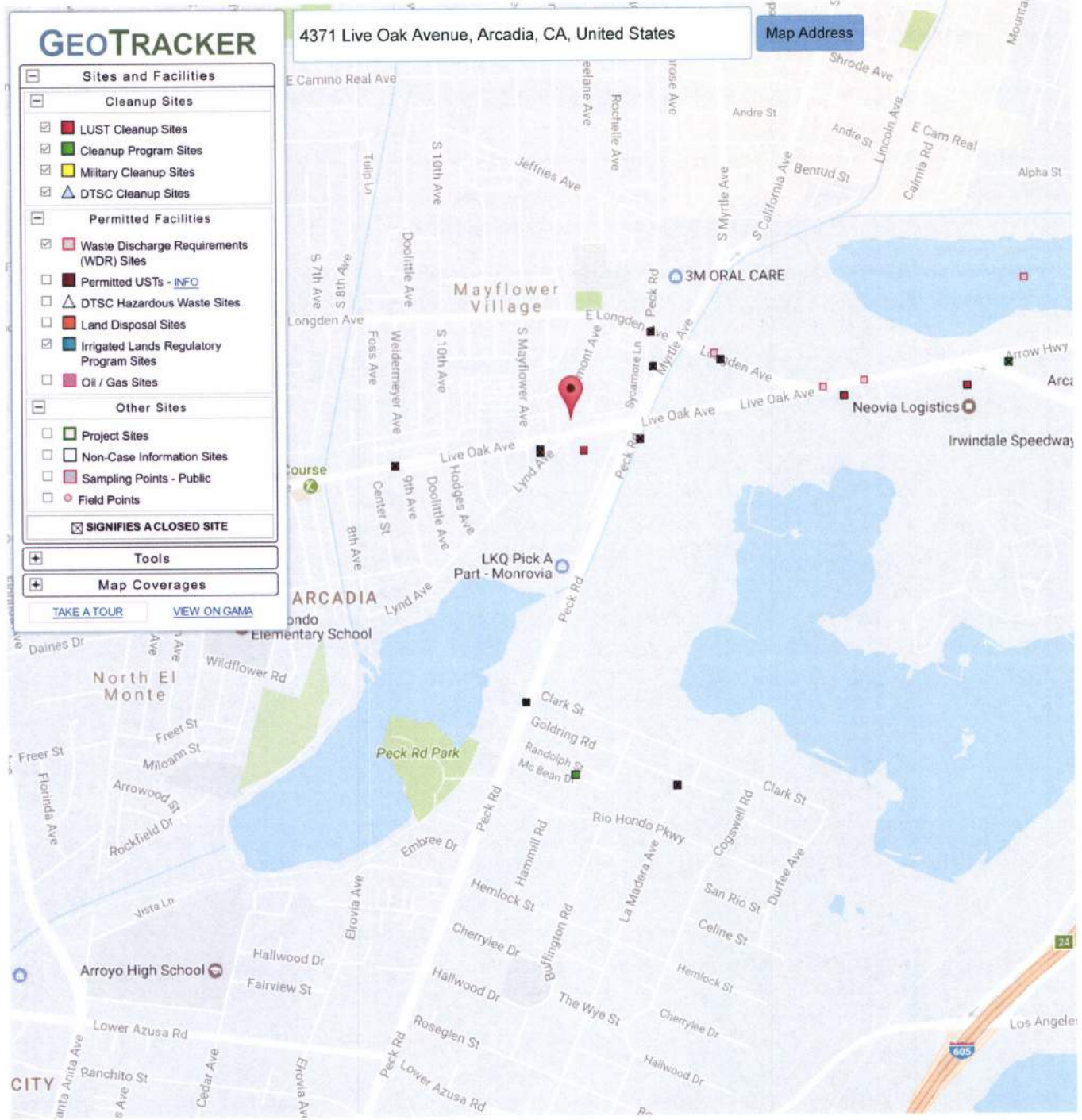
The Regional Board has reviewed its files and has concluded that it does not have any records that are responsive to your request.

-----Original Message-----

From: Rosanne Fischer [<mailto:fischer@reynolds-group.com>]  
Sent: Wednesday, January 11, 2017 2:09 PM  
To: WB-RB4-PublicRecords  
Subject: File Review Request - 4371 E. Live Oak Avenue, Arcadia, CA

I am performing a Phase I Environmental Site Assessment (ESA) at the subject Property. Do you have any files related to the address? Please let me know and, if so, I'll set an appointment to review them. Thanks!

Rosanne Fischer  
Registered Environmental Property Assessor #419564 THE REYNOLDS GROUP  
714-730-5397 Ext. 123  
[fischer@reynolds-group.com](mailto:fischer@reynolds-group.com)







Department of Conservation

Division of Oil, Gas & Geothermal Resources Well Finder

Find By Location

Find My Current Location

or

Street: 4371 E. Live Oak Avenue

City: Arcadia

Zip:

Find

Display a 1500 foot buffer

Buffer radius is limited to 10 mi (52800ft).

Find By API

Find By Lat, Long

Find By PLSS

Find By Oil/Gas Field

Data (Layers):

Notices & Permits

DOGGR Wells

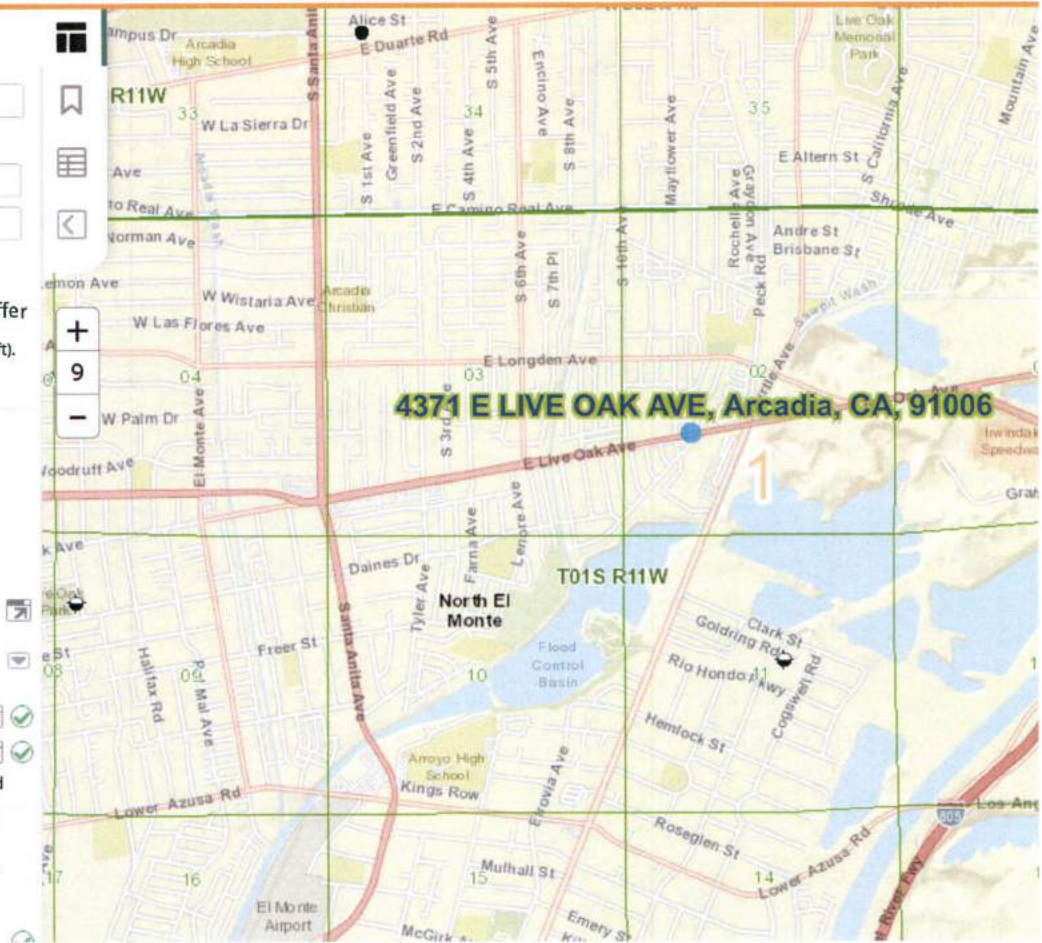
Label: API# Well# Detailed

EPA Wells for Aquifer Exemption Review

Enhanced Oil Recovery Wells

Disposal Wells

Oil/Gas Fields



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**Subject** : 4343 E. Live Oak, Arcadia and 4371 E. Live Oak, Arcadia, CA  
**Date** : Mon, 6 Feb 2017 12:57:00 -0800  
**Linked to** : Public Records Requests  
**From** : Rosanne Fischer <[fischer@reynolds-group.com](mailto:fischer@reynolds-group.com)>  
**To** : Public Records Requests <[publicrecordsrequests@aqmd.gov](mailto:publicrecordsrequests@aqmd.gov)>

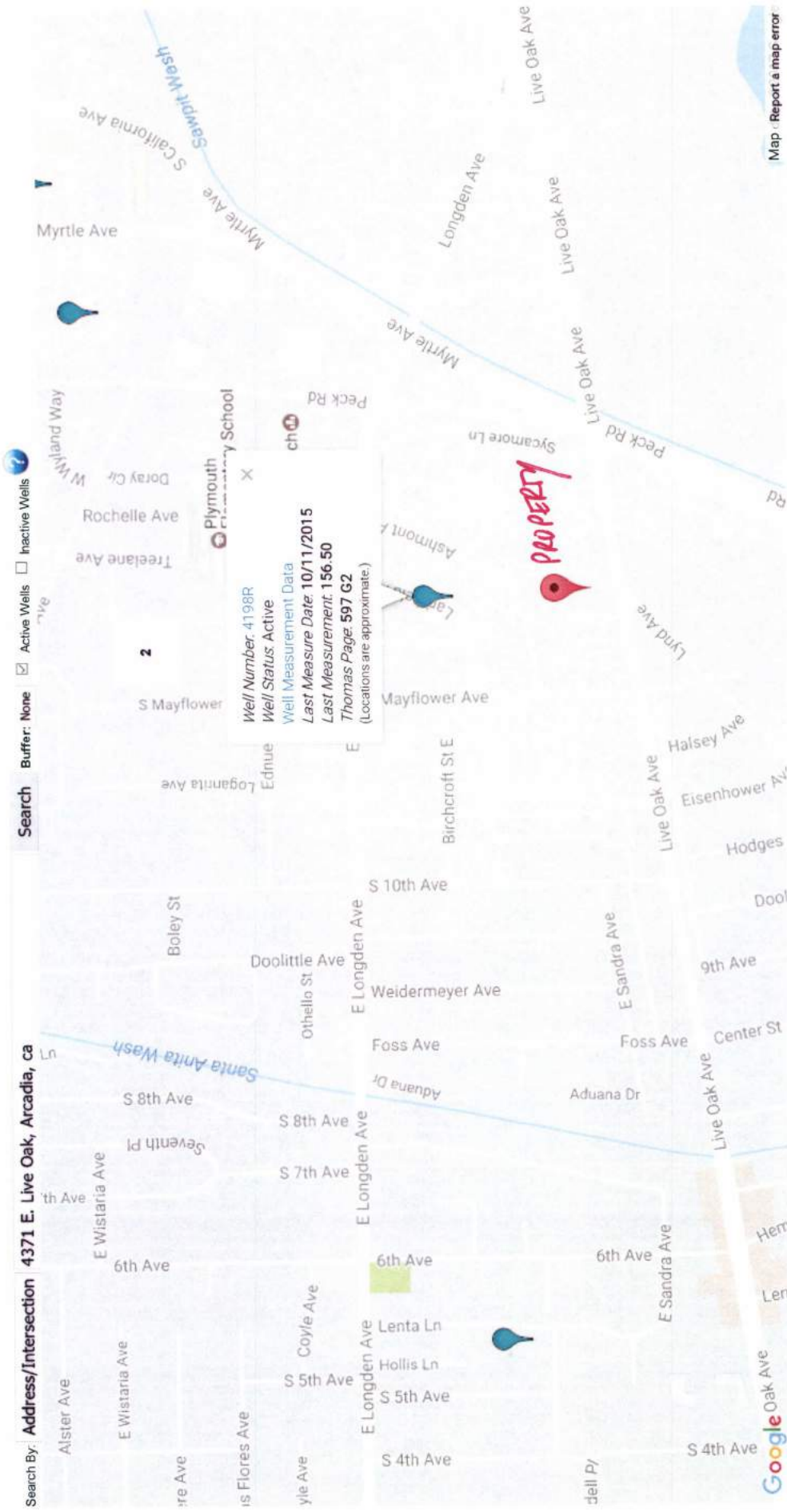
I am performing a Phase I Environmental Site Assessment at the two subject adjacent addresses. Can you please tell me if you have any files related to the addresses within the last 2 years, such as equipment inventory and notices of violation? Thank you!

Rosanne Fischer  
Registered Environmental Property Assessor #419564  
THE REYNOLDS GROUP  
714-730-5397 Ext. 123  
[fischer@reynolds-group.com](mailto:fischer@reynolds-group.com)

2-10-17 PER STACEY WALKOWIAK AT SCAQMD,  
NO RECORDS

Department of Public Works  
dpw.lacounty.gov

DEPTH TO WATER DATA





# Parcel Profile Report

Report date: Tuesday, October 04, 2016 11:02 AM

CLIENT PROVIDED



APN: 8511-018-015

Address: 4371 E LIVE OAK AVE, ARCADIA, CA 91006



**Site Address :** 4371 E LIVE OAK AVE

**City :** ARCADIA CA 91006

**Lot Size Sq Ft :** 0

**Lot Size Acres :** 0

**Use Code :** 100V

**Use Type :** Commercial

**Use Description :** Commercial

**Legal Description :** ARCADIA ACREAGE TRACT LOT COM N 80°49'38" E 674.83 FT AND S 20°42' W 138.6 FT FROM SW COR OF LOT 106 TR # 15099 TH S 80°49'38" W 198.5 FT TH S SEE ASSESSOR MAPBOOK FOR MISSING PORTION LOT 146

**Tax Rate Area :** 06261

**Transfer Date :** 2000-06-07

**Building 1**

**Design Type :** N/A

**Bedrooms :** N/A

**Year Built:** N/A

**Baths :** N/A

**Effective Yr :** N/A

**Bldg Sq Ft :** N/A

**Units:** N/A

*NOTE: The information and materials contained herein are provided as a public service to provide planning and zoning information for the unincorporated areas of Los Angeles County. Parcel information shown on this page is from the Assessor's Office. The County has made every reasonable effort to ensure the accuracy of the information and materials contained within.*

APN: 8511-018-015

Address: 4371 E LIVE OAK AVE, ARCADIA, CA 91006

**CSD Area Specific**

No results found.

**Census Tract (2010)**

TRACT: 4314.00

TOTAL POPULATION: 3970

**City and Community**

NAME: SOUTH MONROVIA ISLANDS

SQ MILES: 0.686627

JURISDICTION: UNINCORPORATED AREA

**Community Standards District (CSD)**

No results found.

**DRP Field Office Service Area**

OFFICE: SAN GABRIEL VALLEY OFFICE

OFFICE CODE: PBSG

**Equestrian District (EQD)**

No results found.

**Land Use Policy - General Plan 2035**

PLAN\_: H30

PLAN\_LEG: H30 - Residential 30

COMM\_NAME: SOUTH MONROVIA ISLANDS

LU\_TYPE: RESIDENTIAL

ACRES: 3.578366

**Land Use Policy – Comm. / Area Plan**

No results found.

**Leased Parcel (Marina Del Rey)**

No results found.

**Rural Outdoor Lighting District (Dark Skies)**

No results found.

**Significant Ridgeline**

No results found.

**Supervisory District**

Name: District 5

**Transit Oriented District (TOD)**

No results found.

**Watershed**

NAME: LOS ANGELES RIVER

**Zoned District (ZD)**

ZONED DISTRICT NAME: SOUTH ARCADIA

**Zoning**

Zone: R-3

Zone Description: Limited Density Multiple Residence

Zone Category: R-3-()U

**Zoning Map Grid**

MAP NUMBER: 150Z285

**Zoning Map Grid**

MAP NUMBER: 153Z285

NOTE: Data on this page was compiled from a spatial join against several GIS layers in the GISNET3 application. If a layer name is shown more than once, then multiple features intersected the selected parcel.

# Preliminary Hydrology & Hydraulics Report

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# APPENDIX F



# PRELIMINARY HYDROLOGY & HYDRAULICS REPORT

TR 80294  
Live Oak – Arcadia  
4343 and 4371 East Live Oak Avenue  
Arcadia, CA 91006

May 14, 2018

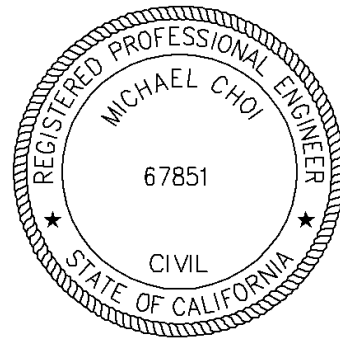
**PREPARED FOR:**

**Live Oak 888, LLC**  
4804 Laurel Canyon Boulevard, Suite 742  
Valley Village, CA 91607

**PREPARED BY:**

**Kimley»Horn**

660 South Figueroa Street, Suite 2050  
Los Angeles, CA 90017  
(213) 261-4040  
KH Project No.: 099648001



A handwritten signature in black ink, appearing to read "Michael Choi", written over the bottom right portion of the professional seal.



## **Section 100**

### **Introduction**

#### **100.1 Introduction**

The project site is comprised of two parcels, one of which is developed as a mobile home park (2.94 Acres) and the other which is undeveloped-land (0.68 Acres) totaling 3.62 acres. The site development includes 86 residential condominiums/townhouses along with private streets, landscape, storm drainage, and utility improvements to service the development. This document is provided as an attachment for the VTTM submittal to provide a basis for the storm water design for the proposed project. It considers existing and proposed conditions, and provides calculations for the sizing of storm drain pipes and catch basins.

#### **100.2 Methodology**

The Los Angeles County Department of Public Works Hydrology Map was used to determine the approximate rainfall during a 25-year and 50-year storm on the site. HydroCalc was used to determine the on-site flows for the proposed project. The calculations are included in Appendix A.

#### **100.3 Existing Drainage Conditions**

The elevation of the project site ranges from approximately 353 to 356 feet above mean sea level (MSL). In the existing condition of the site, stormwater sheet flows to ribbon gutters centered in the middle of the private streets and discharges at two existing entrances along Live Oak Avenue and one existing entrance along Mayflower Avenue where the runoff enters two existing catch basins downstream to the west of the property. The existing undeveloped parcel sheet flows south towards the driveway entrance on Live Oak avenue and enters the street where it ultimately discharges into the existing catch basin located southwest of the property. The proposed site conditions will retain the existing drainage pattern.



## 100.4 Proposed Drainage Conditions

The proposed site drainage conditions will generally follow the existing drainage pattern in that the onsite runoff will ultimately be relayed to existing catch basin southwest of the property at Live Oak Avenue and will be conveyed to the existing storm drain along Mayflower Avenue. Longitudinal gutters will be constructed within the proposed drive aisles along with drainage inlets to relay onsite runoff to stormwater treatment systems. The proposed stormwater treatment systems will consist of deep drywells and underground detention structures near Live Oak Avenue and the Mayflower Avenue driveway entrance. Onsite runoff that exceeds the stormwater treatment volume near Live Oak Avenue will overflow to the street via proposed curb drains which would ultimately relay the runoff to the existing catch basin at southwest of the property. Onsite runoff that exceeds the stormwater treatment volume near Mayflower Avenue will be conveyed to the existing storm drain along Mayflower Avenue.

See Table 1 below for a summary of the Pre- and Post-Development Conditions.

**Table 1: Pre- and Post-Development Conditions**

<b>Construction site area</b>	<b>3.62</b>	<b>acres</b>
Percent impervious before construction	81	%
Percent pervious before construction	19	%
Percent impervious after construction	90	%
Percent pervious after construction	10	%

See Proposed Drainage Area Map included as Exhibit 2 of the attachments. A summary of proposed drainage areas and their associated flows are as follows:

**Area A** has a  $Q_{25}$  flow of 4.39 cfs. The onsite runoff will be relayed through the proposed longitudinal gutters and catch basins to the proposed stormwater treatment system and associated overflow structure. Stormwater overflow runoff will be conveyed to the existing storm drain line along Mayflower Avenue.

**Area B** has a  $Q_{25}$  flow of 4.90 cfs. The onsite runoff will be relayed through the proposed longitudinal gutters and catch basins to the proposed stormwater treatment system and associated overflow structure. The existing curb and gutter will then relay the runoff from the overflow parkway drain to the existing curb opening catch basin on Live Oak Avenue.

The proposed development will reduce the total runoff for the  $Q_{25}$  from pre-development to post development conditions by 0.88 cfs (10.17 cfs existing vs 9.29 cfs proposed). Refer to Exhibit 1 for the Existing Drainage Area Map and Exhibit 2 for the Proposed Drainage Area Map. See Table 2 below for a summary of the existing and proposed drainage areas and flows.

**Table 2: Existing and Proposed Drainage Areas and Flows**

<b>Drainage Area Number</b>	<b>Drainage Area (Acres)</b>	<b>25-year Flow (CFS)</b>
EX-1	0.72	2.31
EX-2	0.85	2.50
EX-3	1.37	3.52
EX-4	0.68	1.84
<b>Total Pre</b>	<b>3.62</b>	<b>10.17</b>
AREA A	1.71	4.39
AREA B	1.91	4.90
<b>Total Post</b>	<b>3.62</b>	<b>9.29</b>

## **100.5 Conclusions**

The Live Oak Project site drainage is designed to provide storm water control and quality measures based on the current Los Angeles County requirements. The site has been analyzed for adherence to Low Impact Development (LID) for stormwater treatment along with stormwater runoff control for the 25-year ( $Q_{25}$ ) and 50-year ( $Q_{50}$ ) storm event.

The analysis shows that the proposed development will reduce the overall site's runoff flow rate and would ultimately discharge to the existing storm drain system within the surrounding streets. Therefore, it has been determined that the existing storm drain system has adequate capacity for the proposed development.

## **100.6 Limitations**

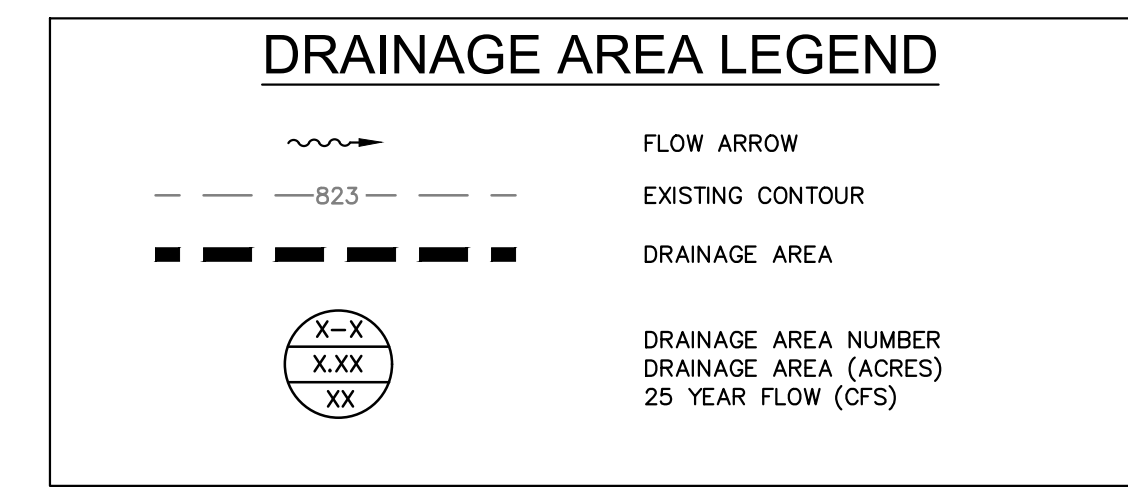
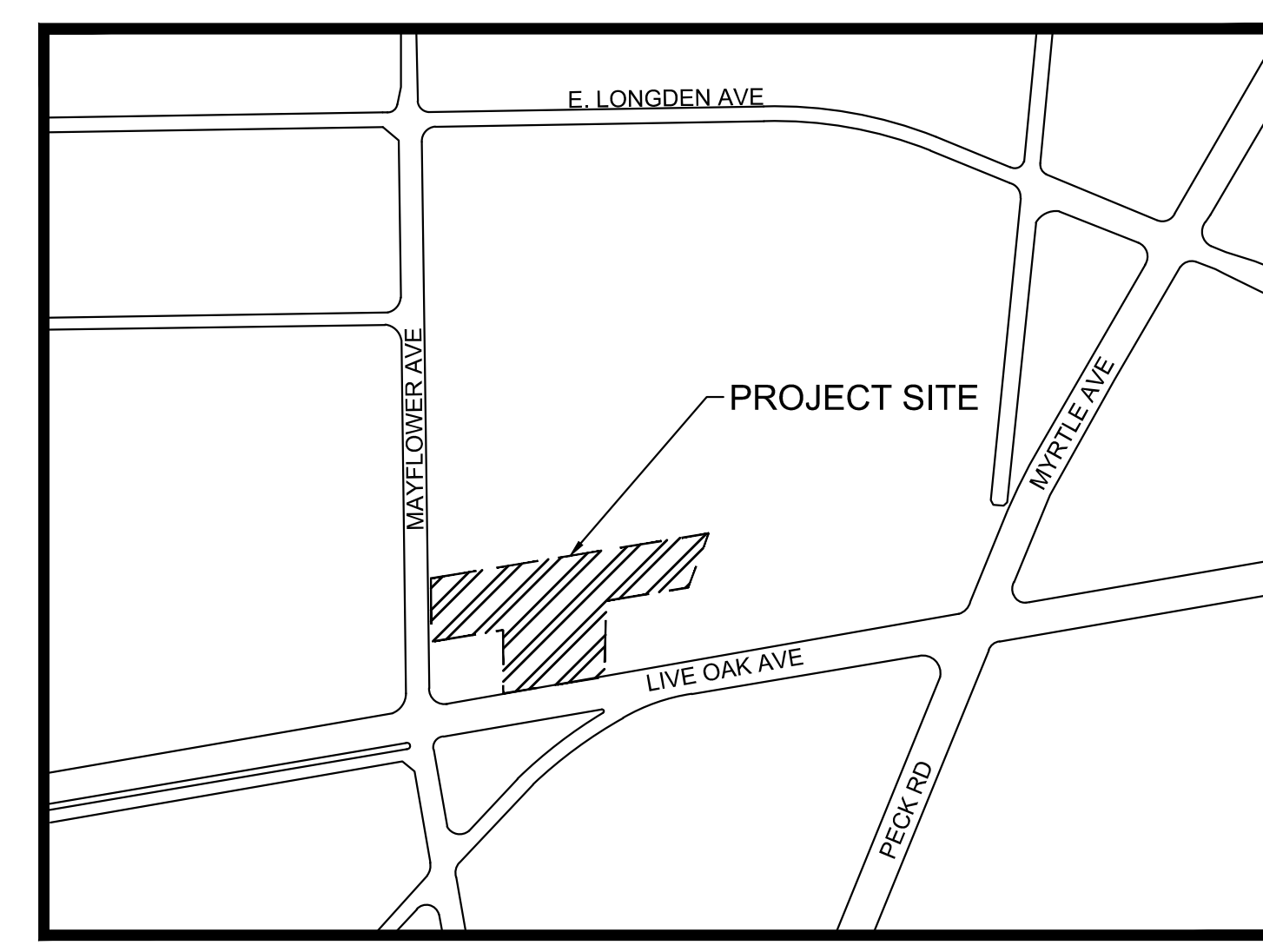
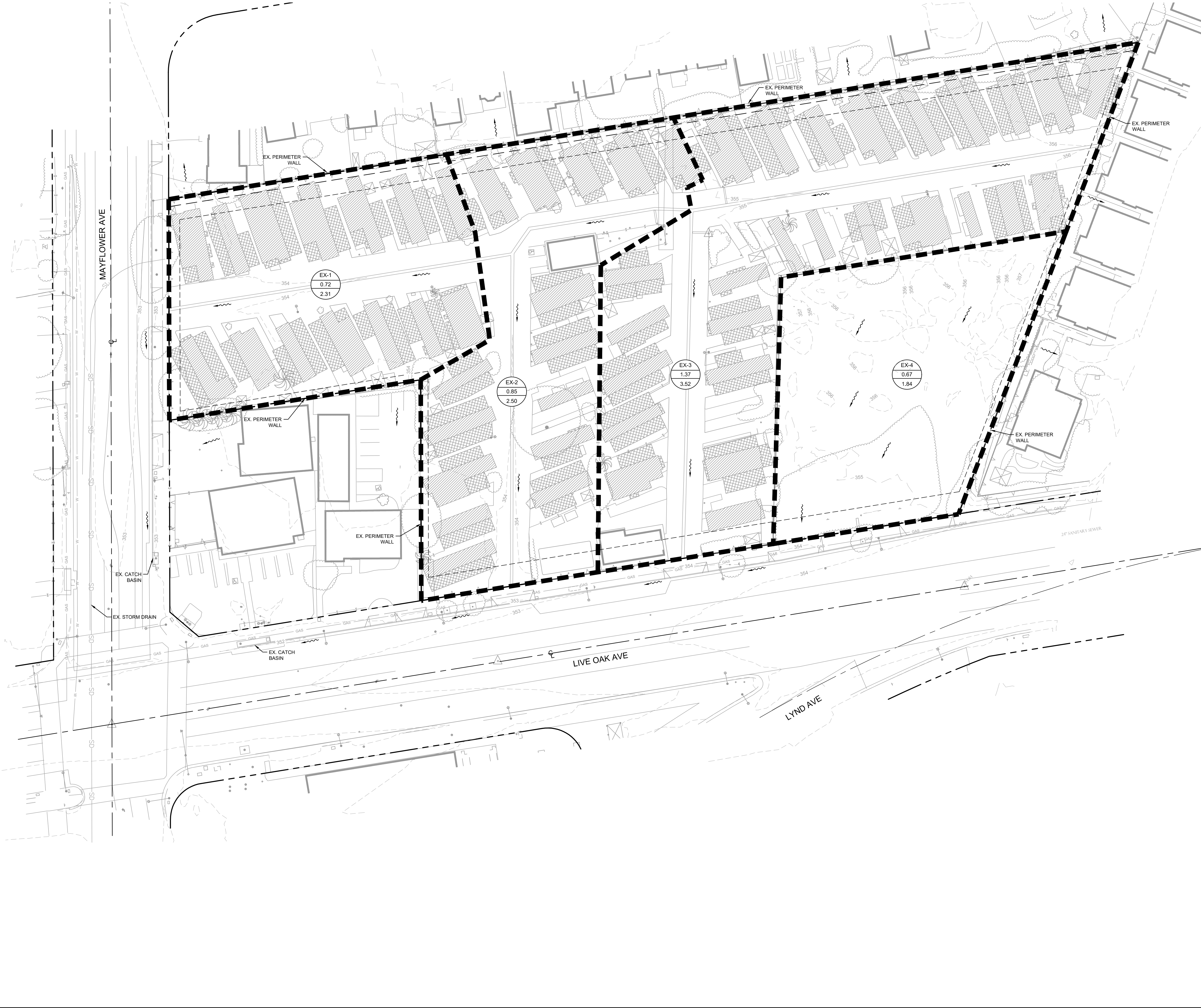
Kimley-Horn was retained to perform a limited preliminary hydrology analysis and report to support the VTTM submittal to the County of Los Angeles, and has performed only those tasks specifically stated in our scope of services. This report may be relied upon only by Kimley-Horn's Client. It is not intended for use by any other party.

The Client may use this report as part of its due diligence, but this report should not be used as the sole basis for the Client's decision making. We endeavored to research site development issues and constraints for the extent practical given the scope, budget, and schedule agreed to by the Client. Our assessment is based on information provided to Kimley-Horn by others (municipality staff, DOT staff, utility company representatives, etc.) and, therefore, is only as accurate and complete as the information provided to us. This report is based on our knowledge as of September 8<sup>th</sup>, 2017, and is based on the desires of the Client, which have been specifically disclosed to us. New issues may arise during development because of changes in governmental rules and policy, changed circumstances, or unforeseen conditions.

**EXHIBIT 1**  
**Existing Drainage Area Map**



Plotted By: xiang, Chris - Sheet Set: Arcadia Live - Date: MFL - Layout: LAYOUT - May 14, 2018 03:24:44pm - A:\LAYOUT\09964801-Live - Date: Arcadia\_MFL\09964801-Existing\_Drainage\_Area\_Map.dwg  
 This document, together with the conditions and design presented herein, is an instrument of service, to be used only for the specific purpose and client for which it was prepared. No use or reliance on this document without written authorization and approval by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



**DRAINAGE CRITERIA**

1. DRAINAGE CRITERIA IS PER LOS ANGELES COUNTY DRAINAGE DESIGN MANUAL REQUIREMENTS:

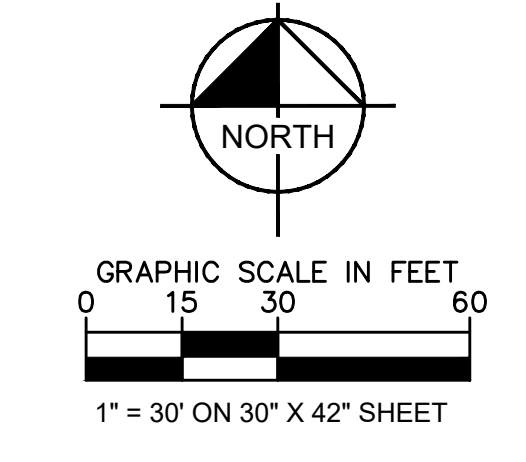
TC =	5 MIN.
C =	0.8996
Imax =	3.5621 IN./HR
A =	DRAINAGE AREA (ACRES)
Q =	C**A (CFS)

**GENERAL NOTES**

- NOT WITHIN COUNTY ADOPTED FLOODWAY.
- NOT WITHIN FEMA FLOOD ZONE 'A'.

**HYDROLOGIC DESIGN DATA TABLE**

	AREA (AC)	STORM FREQUENCY (YEARS)	RAINFALL DEPTH (IN.)	PERCENT IMPERVIOUS	SOIL TYPE	FIRE FACTOR	PEAK FLOW RATE (CFS)
EX-1	0.72	25	5.97	0.99	6	0	2.31
EX-2	0.85	25	5.97	0.99	6	0	2.50
EX-3	1.37	25	5.97	0.99	6	0	3.52
EX-4	0.68	25	5.97	0.01	6	0	1.84
	$\Sigma A=3.62$						$\Sigma Q=10.17$

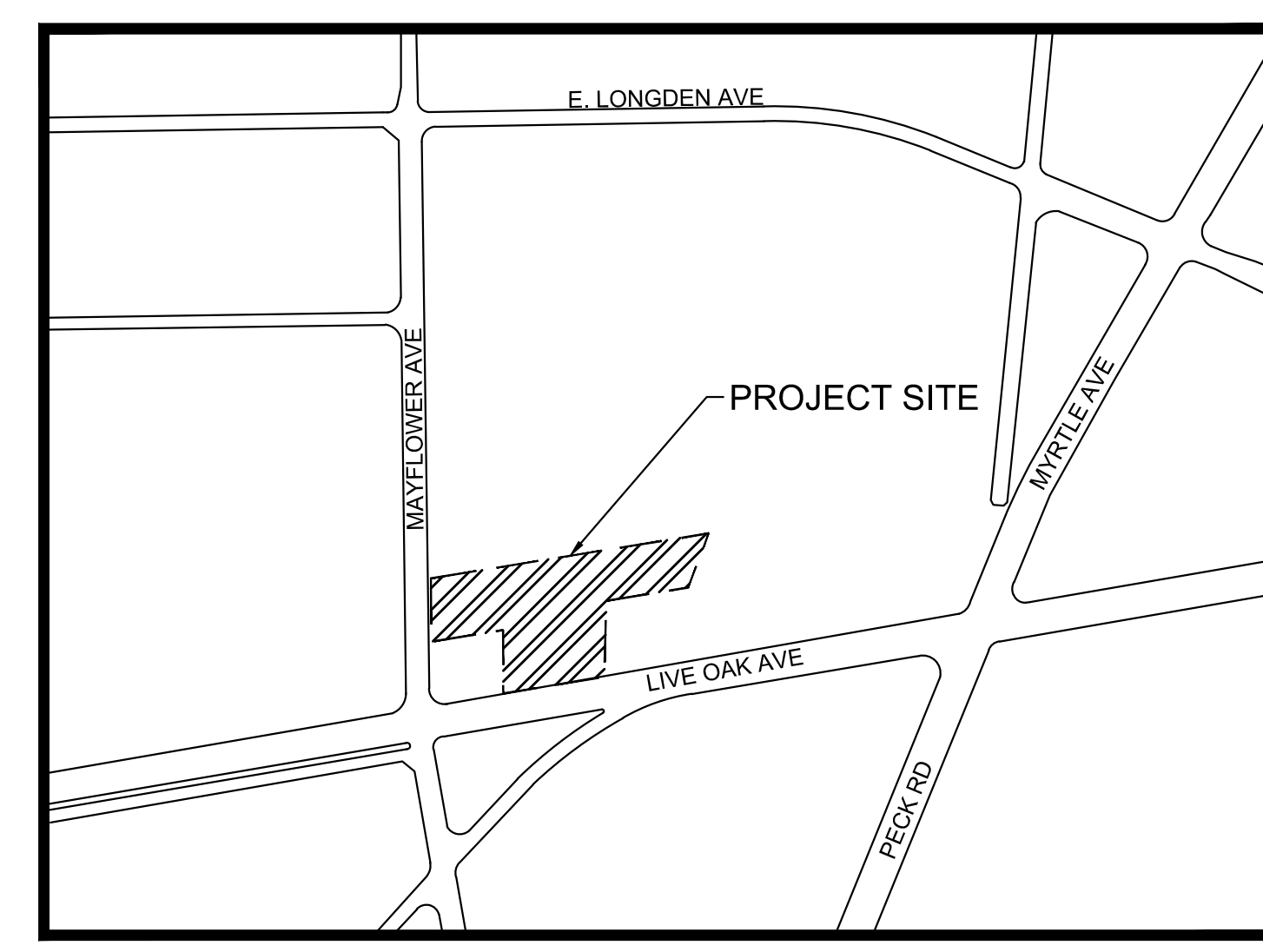
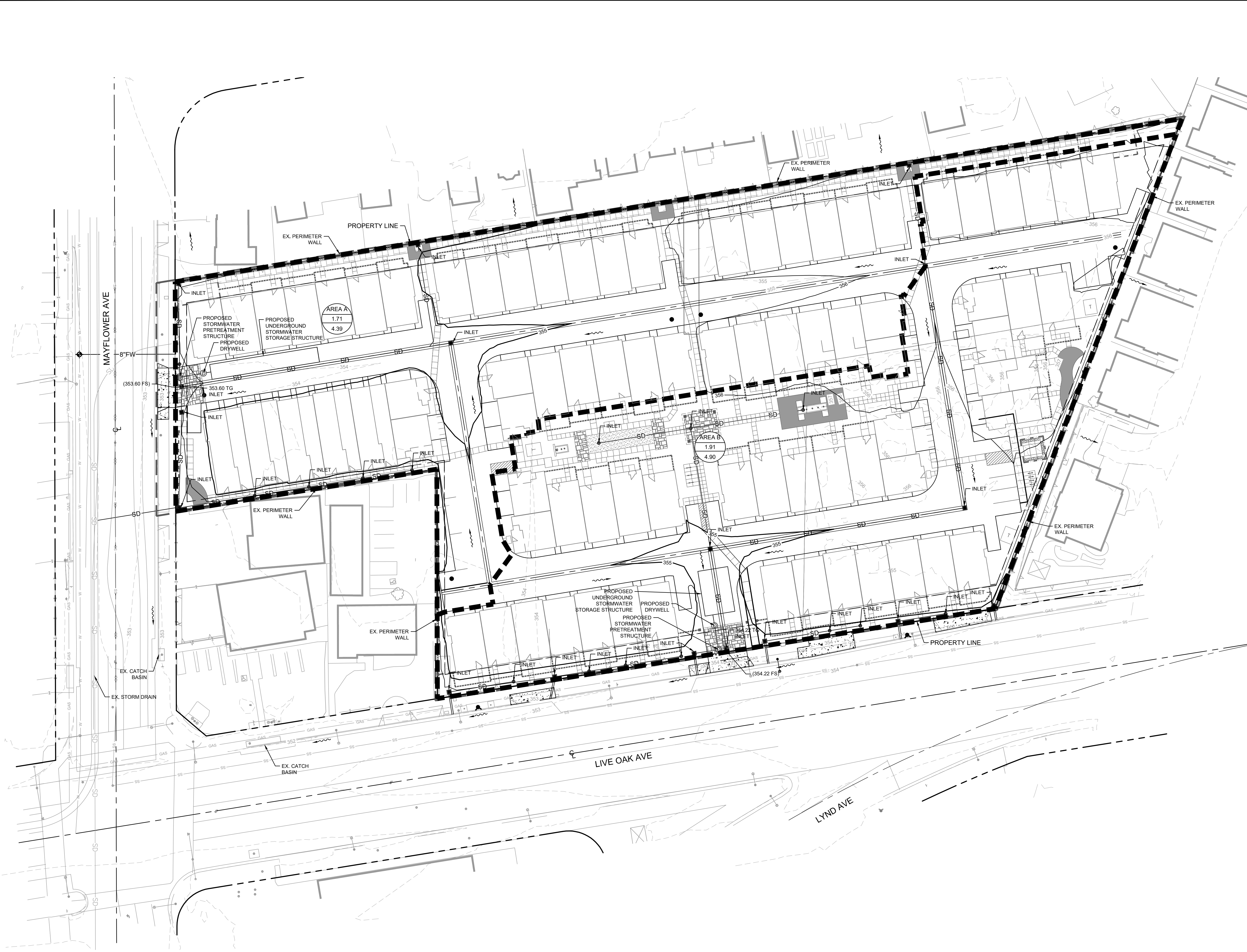


<p><b>Kimley»Horn</b></p> <p style="font-size: 8px;">© 2018 KIMLEY-HORN AND ASSOCIATES, INC. 660 S. FIGUEROA STREET, SUITE 2050, LOS ANGELES, CA 90017 WWW.KIMLEY-HORN.COM</p>		<p><b>EXISTING DRAINAGE CONCEPT FOR TR 80294</b></p>
KHA PROJECT: 09964801 DATE: 5/14/2018 SCALE: DESIGNED BY: CITY DRAWN BY: CITY CHECKED BY: MC	REVISIONS No. DATE BY	LIVE OAK ARCADIA MULTIFAMILY PREPARED FOR LIVE OAK 888, LLC LOS ANGELES COUNTY, CALIFORNIA
SHEET NUMBER <b>C-2</b>		SHEET NUMBER <b>C-2</b>

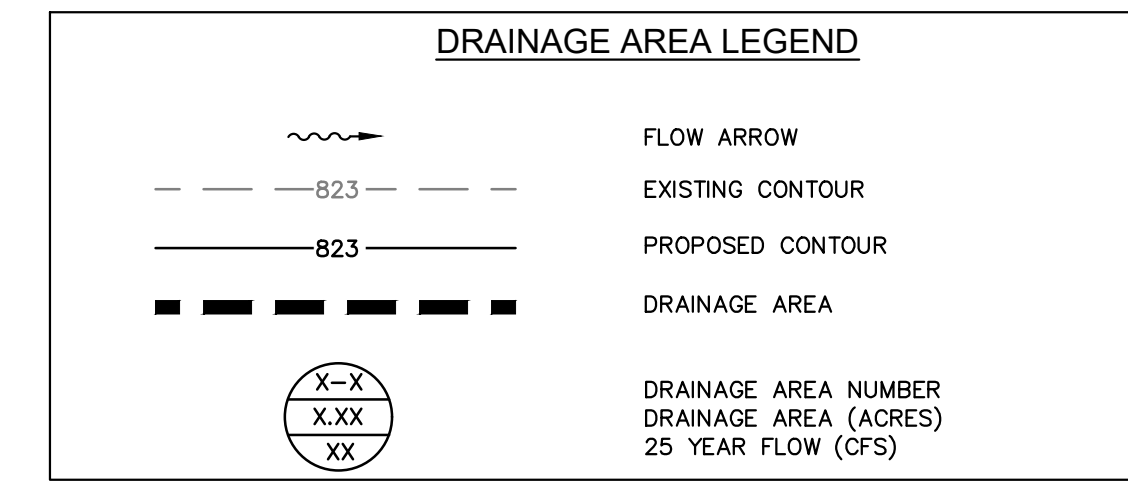
**EXHIBIT 2**  
**Proposed Drainage Area Map**



This document, together with the conditions and design presented herein, is an instrument of service, to be used only for the specific purpose and project for which it was prepared. No other use or reliance on this document without written authorization and approval by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



**LOCATION MAP**  
NOT TO SCALE



**DRAINAGE CRITERIA**

1. DRAINAGE CRITERIA IS PER LOS ANGELES COUNTY DRAINAGE DESIGN MANUAL REQUIREMENTS:

TC = 8 MIN.  
 C = 0.8995  
 I<sub>max</sub> = 2.86 IN/HR  
 A = DRAINAGE AREA (ACRES)  
 Q = C<sup>0.75</sup> \* A (CFS)

**GENERAL NOTES**

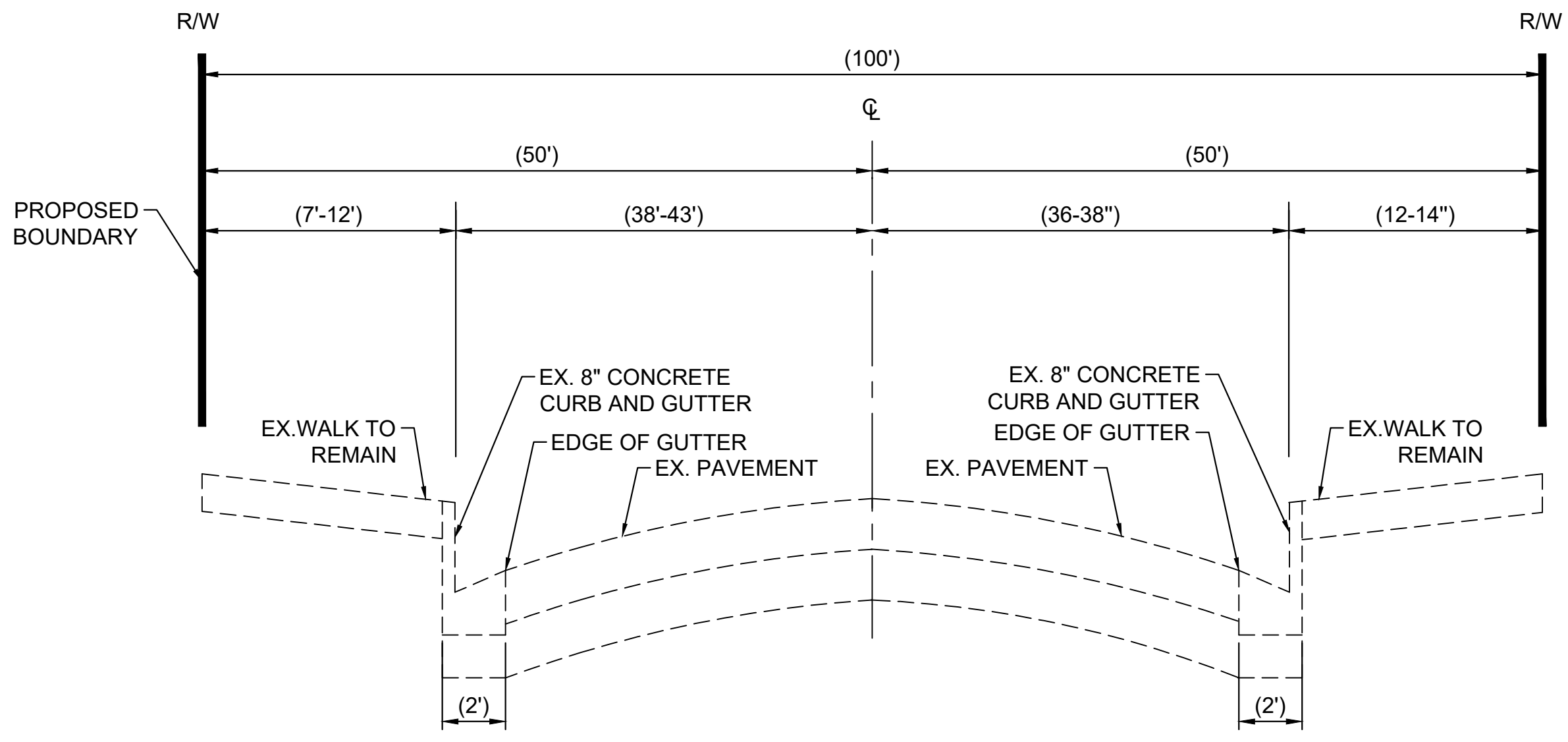
1. MAINTENANCE RESPONSIBILITIES FOR ALL DRAINAGE DEVICES TO BE PROVIDED BY LOCAL HOMEOWNER ASSOCIATION.
2. NOT WITHIN COUNTY ADOPTED FLOODWAY.
3. NOT WITHIN FEMA FLOOD ZONE 'A'.

**HYDROLOGIC DESIGN DATA TABLE**

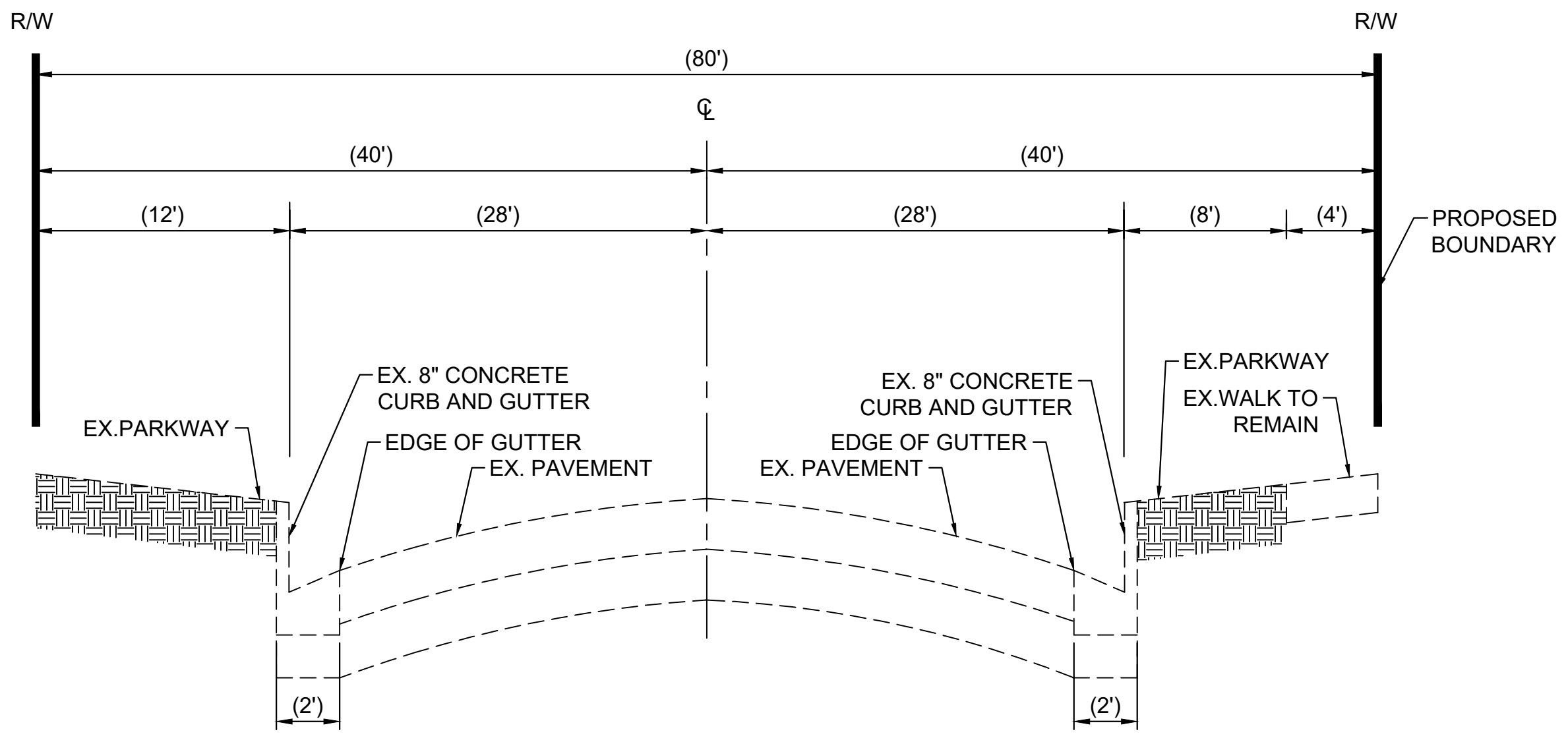
	AREA (AC)	STORM FREQUENCY (YEARS)	RAINFALL DEPTH (IN)	PERCENT IMPERVIOUS	SOIL TYPE	FIRE FACTOR	PEAK FLOW RATE (CFS)
AREA A	1.71	25	5.97	0.99	6	0	4.39
AREA B	1.91	25	5.97	0.99	6	0	4.90
<b>ΣA</b>	<b>3.62</b>						<b>ΣQ=9.29</b>

**LID SUMMARY**

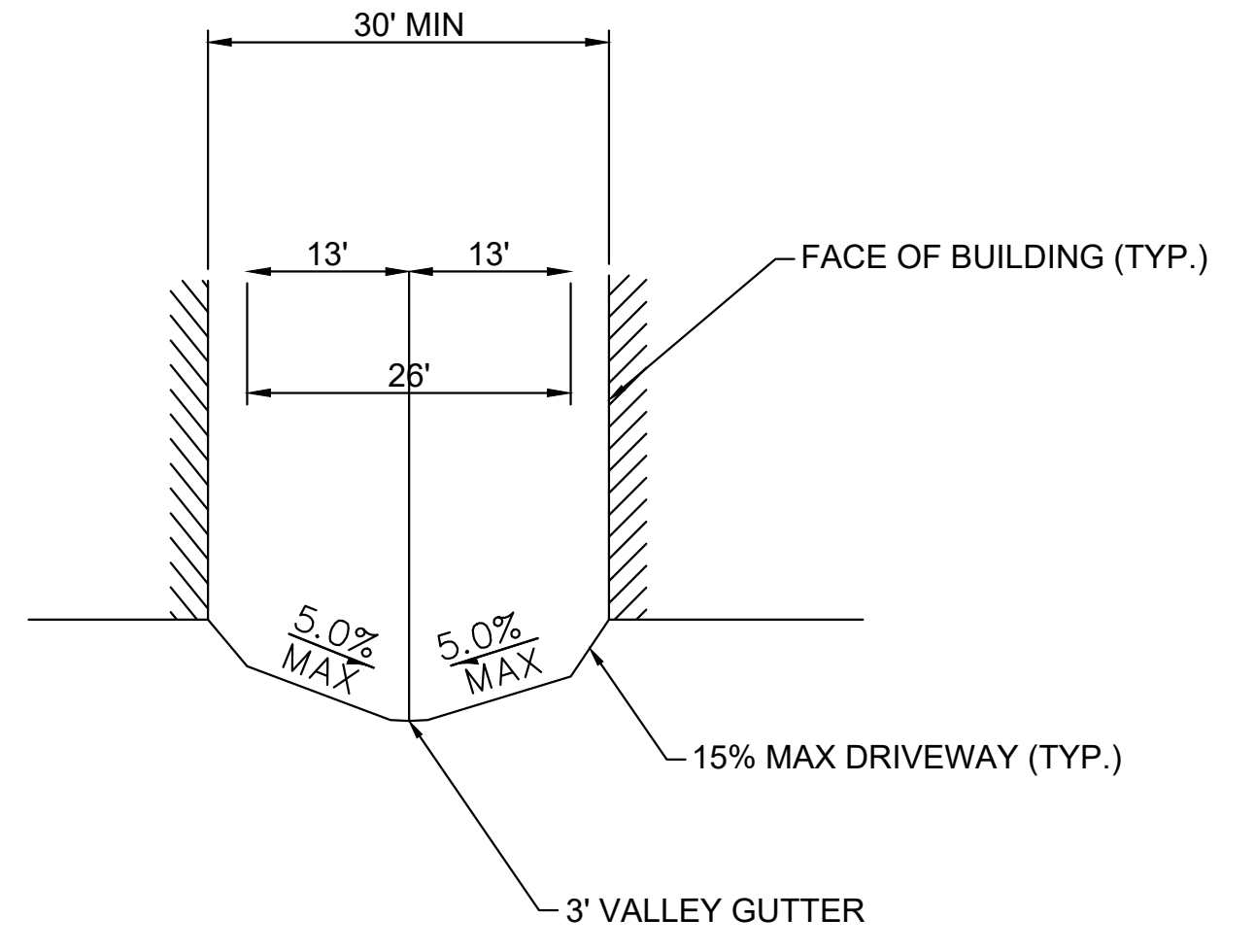
	AREA (AC)	FLOW PATH LENGTH (FT)	FLOW PATH SLOPE (V/F/HFT)	24-HOUR PERCENTILE RAINFALL DEPTH (IN)	PERCENT IMPERVIOUS (DECIMAL)	SOIL TYPE	MITIGATION VOLUME REQUIRED (CF)	MITIGATION VOLUME PROVIDED (CF)	PERCENT RETAINED
AREA A	1.71	500	0.0050	1.02	0.99	6	5601	5601	100.00%
AREA B	1.91	500	0.0050	1.02	0.99	6	6256	6256	100.00%



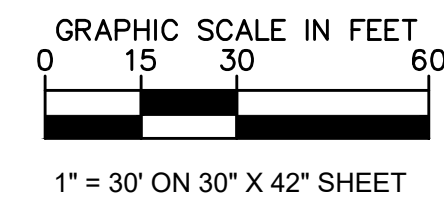
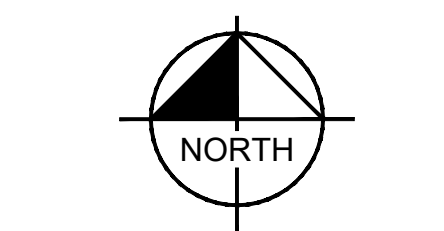
**TYPICAL SECTION LIVE OAK AVE**  
NTS



**TYPICAL SECTION MAYFLOWER AVE**  
NTS



**TYPICAL SECTION PRIVATE DRIVE**  
NTS



PROJECT NO. \_\_\_\_\_
DATE \_\_\_\_\_

REVISIONS
NO. \_\_\_\_\_

**Kimley-Horn**

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 660 S. FIGUEROA STREET, SUITE 2050, LOS ANGELES, CA 90017  
 WWW.KIMLEY-HORN.COM

MICHAEL CHOI  
 No. C67851  
 CIVIL  
 STATE OF CALIFORNIA

KVA PROJECT 099648001
DATE 5/14/2018
SCALE
DESIGNED BY CITY
DRAWN BY CITY
CHECKED BY MC

**PROPOSED DRAINAGE**  
**CONCEPT FOR TR 80294**

LIVE OAK ARCADIA  
 MULTIFAMILY  
 PREPARED FOR  
 LIVE OAK 888, LLC

CALIFORNIA  
 LOS ANGELES COUNTY

SHEET NUMBER
**C-3**

**APPENDIX A**  
**HydroCalc Calculations**

# Peak Flow Hydrologic Analysis

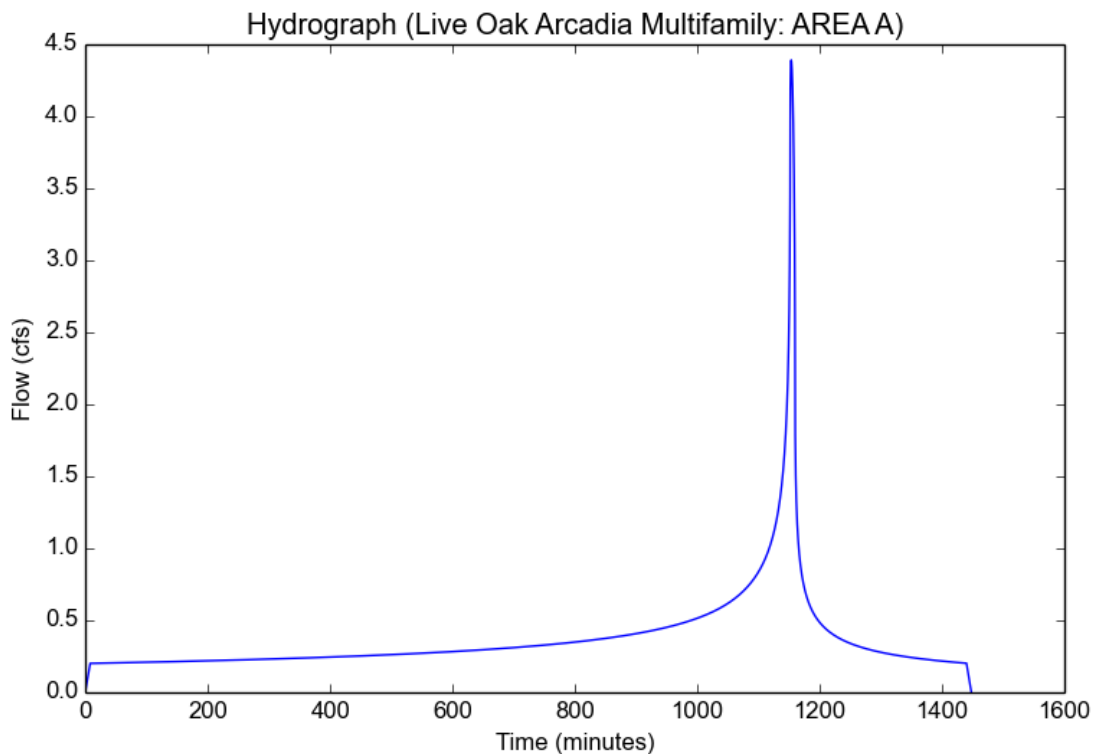
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Version: HydroCalc 1.0.2

## Input Parameters

Project Name	Live Oak Arcadia Multifamily
Subarea ID	AREA A
Area (ac)	1.71
Flow Path Length (ft)	500.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	6.8
Percent Impervious	0.99
Soil Type	6
Design Storm Frequency	25-yr
Fire Factor	0
LID	False

## Output Results

Modeled (25-yr) Rainfall Depth (in)	5.9704
Peak Intensity (in/hr)	2.8561
Undeveloped Runoff Coefficient (Cu)	0.8122
Developed Runoff Coefficient (Cd)	0.8991
Time of Concentration (min)	8.0
Clear Peak Flow Rate (cfs)	4.3912
Burned Peak Flow Rate (cfs)	4.3912
24-Hr Clear Runoff Volume (ac-ft)	0.7536
24-Hr Clear Runoff Volume (cu-ft)	32826.7008



## Peak Flow Hydrologic Analysis

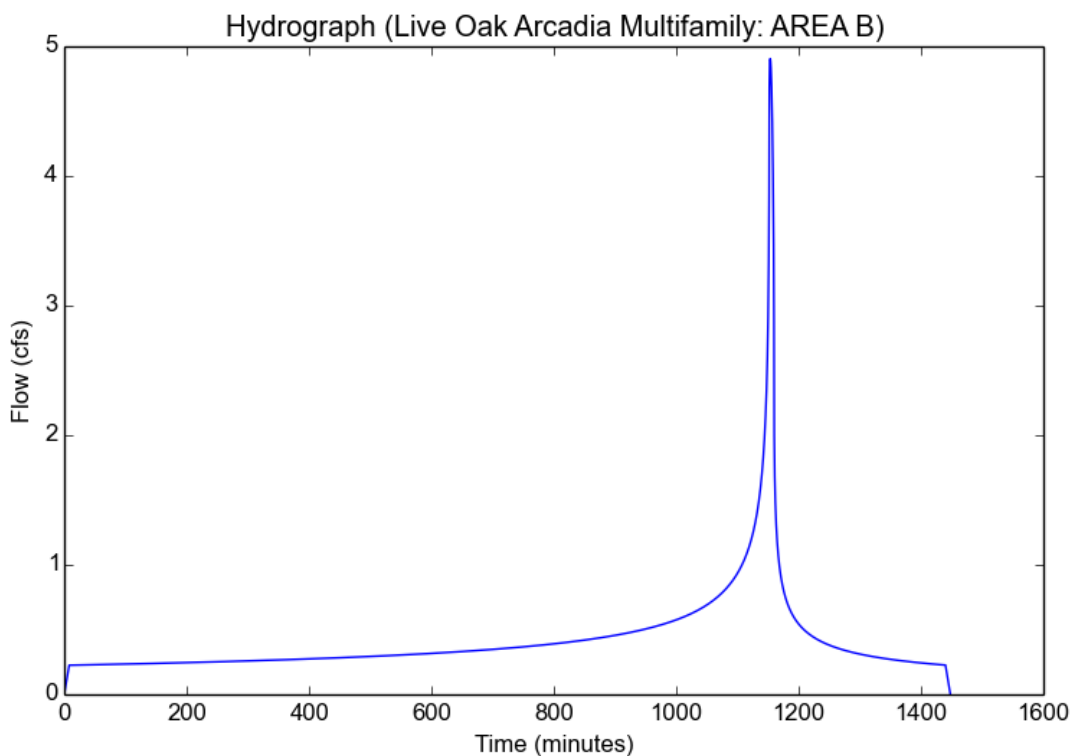
File location: K:/LDT\_LDEV/099648001-Live Oak Arcadia MF/Reports/H&H/Calculations/25-year Storm/Live Oak Arcadia Multifamily - AREA B.pdf  
Version: HydroCalc 1.0.2

### Input Parameters

Project Name	Live Oak Arcadia Multifamily
Subarea ID	AREA B
Area (ac)	1.91
Flow Path Length (ft)	500.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	6.8
Percent Impervious	0.99
Soil Type	6
Design Storm Frequency	25-yr
Fire Factor	0
LID	False

### Output Results

Modeled (25-yr) Rainfall Depth (in)	5.9704
Peak Intensity (in/hr)	2.8561
Undeveloped Runoff Coefficient (Cu)	0.8122
Developed Runoff Coefficient (Cd)	0.8991
Time of Concentration (min)	8.0
Clear Peak Flow Rate (cfs)	4.9048
Burned Peak Flow Rate (cfs)	4.9048
24-Hr Clear Runoff Volume (ac-ft)	0.8417
24-Hr Clear Runoff Volume (cu-ft)	36666.081



## Peak Flow Hydrologic Analysis

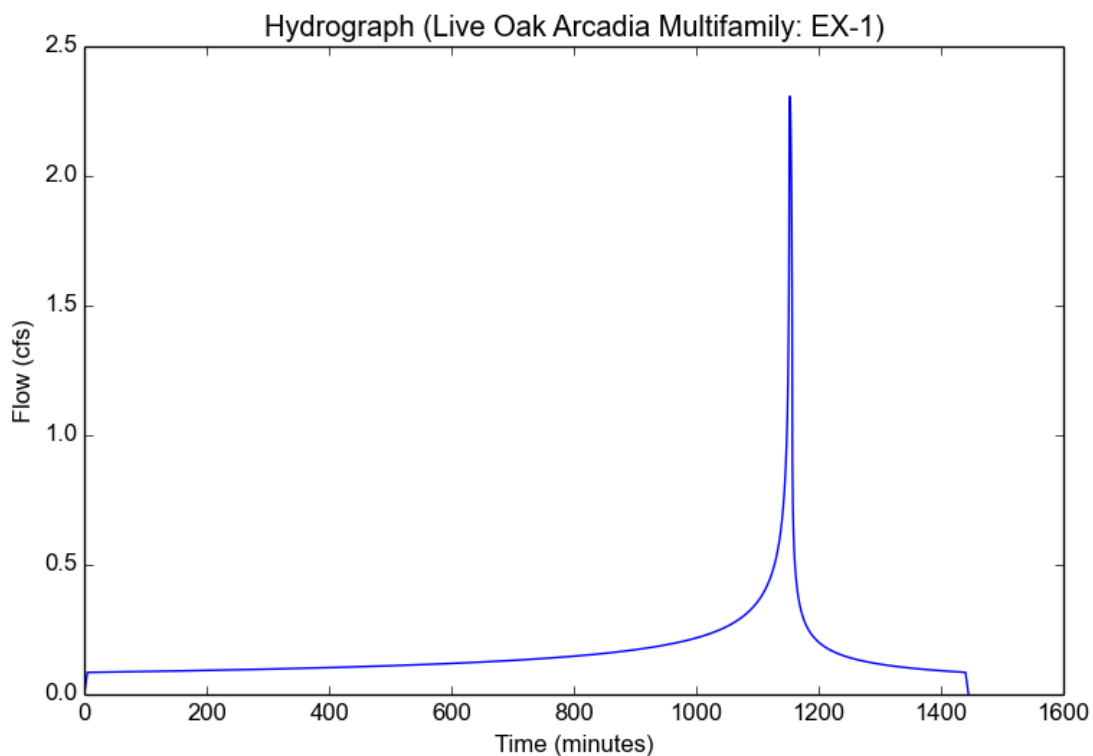
File location: K:/LDT\_LDEV/099648001-Live Oak Arcadia MF/Reports/H&H/Calculations/25-year Storm/Live Oak Arcadia Multifamily - EX-1.pdf  
Version: HydroCalc 1.0.2

### Input Parameters

Project Name	Live Oak Arcadia Multifamily
Subarea ID	EX-1
Area (ac)	0.72
Flow Path Length (ft)	220.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	6.8
Percent Impervious	0.99
Soil Type	6
Design Storm Frequency	25-yr
Fire Factor	0
LID	False

### Output Results

Modeled (25-yr) Rainfall Depth (in)	5.9704
Peak Intensity (in/hr)	3.5621
Undeveloped Runoff Coefficient (Cu)	0.8598
Developed Runoff Coefficient (Cd)	0.8996
Time of Concentration (min)	5.0
Clear Peak Flow Rate (cfs)	2.3072
Burned Peak Flow Rate (cfs)	2.3072
24-Hr Clear Runoff Volume (ac-ft)	0.3173
24-Hr Clear Runoff Volume (cu-ft)	13821.899



## Peak Flow Hydrologic Analysis

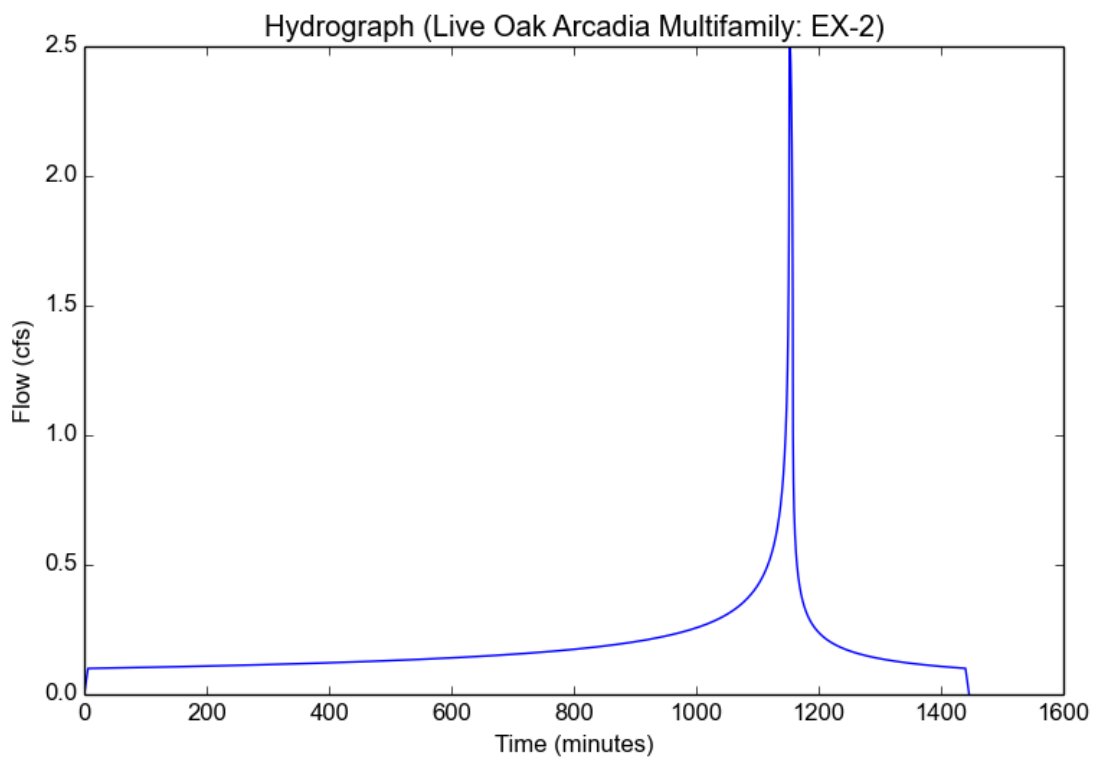
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Version: HydroCalc 1.0.2

### Input Parameters

Project Name	Live Oak Arcadia Multifamily
Subarea ID	EX-2
Area (ac)	0.85
Flow Path Length (ft)	350.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	6.8
Percent Impervious	0.99
Soil Type	6
Design Storm Frequency	25-yr
Fire Factor	0
LID	False

### Output Results

Modeled (25-yr) Rainfall Depth (in)	5.9704
Peak Intensity (in/hr)	3.2696
Undeveloped Runoff Coefficient (Cu)	0.8412
Developed Runoff Coefficient (Cd)	0.8994
Time of Concentration (min)	6.0
Clear Peak Flow Rate (cfs)	2.4996
Burned Peak Flow Rate (cfs)	2.4996
24-Hr Clear Runoff Volume (ac-ft)	0.3746
24-Hr Clear Runoff Volume (cu-ft)	16317.4587





# Peak Flow Hydrologic Analysis

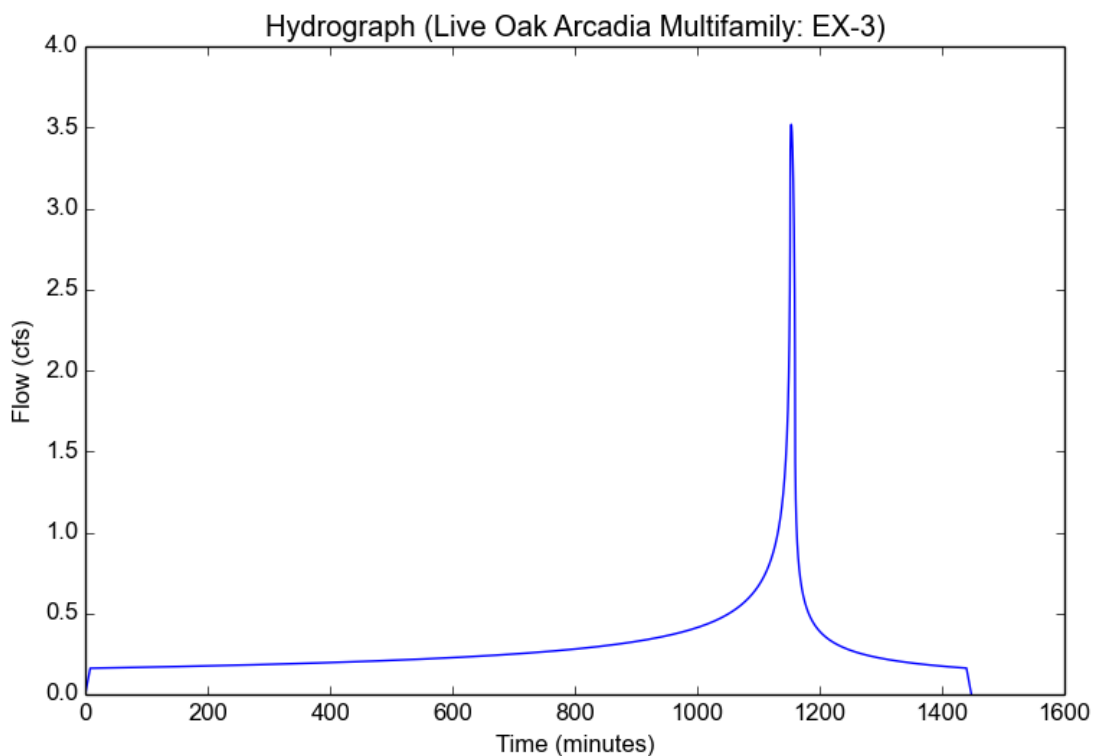
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Version: HydroCalc 1.0.2

## Input Parameters

Project Name	Live Oak Arcadia Multifamily
Subarea ID	EX-3
Area (ac)	1.37
Flow Path Length (ft)	520.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	6.8
Percent Impervious	0.99
Soil Type	6
Design Storm Frequency	25-yr
Fire Factor	0
LID	False

## Output Results

Modeled (25-yr) Rainfall Depth (in)	5.9704
Peak Intensity (in/hr)	2.8561
Undeveloped Runoff Coefficient (Cu)	0.8122
Developed Runoff Coefficient (Cd)	0.8991
Time of Concentration (min)	8.0
Clear Peak Flow Rate (cfs)	3.5181
Burned Peak Flow Rate (cfs)	3.5181
24-Hr Clear Runoff Volume (ac-ft)	0.6038
24-Hr Clear Runoff Volume (cu-ft)	26299.7544





## Peak Flow Hydrologic Analysis

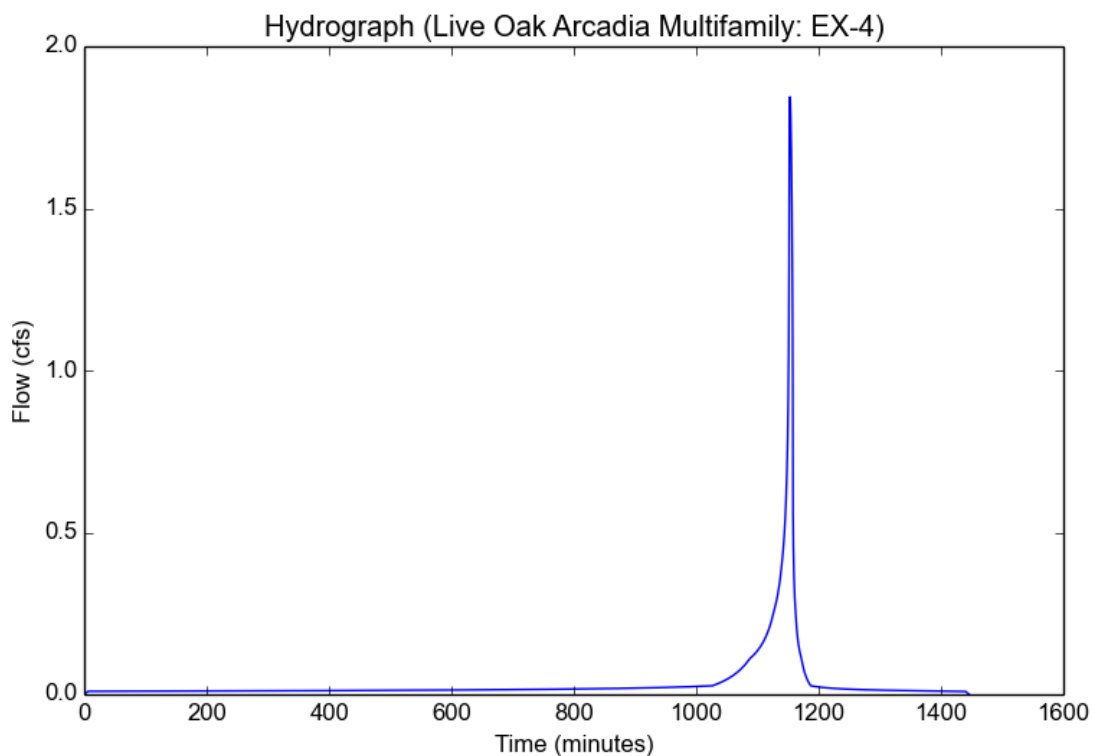
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Version: HydroCalc 1.0.2

### Input Parameters

Project Name	Live Oak Arcadia Multifamily
Subarea ID	EX-4
Area (ac)	0.67
Flow Path Length (ft)	300.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	6.8
Percent Impervious	0.01
Soil Type	6
Design Storm Frequency	25-yr
Fire Factor	0
LID	False

### Output Results

Modeled (25-yr) Rainfall Depth (in)	5.9704
Peak Intensity (in/hr)	3.2696
Undeveloped Runoff Coefficient (Cu)	0.8412
Developed Runoff Coefficient (Cd)	0.8418
Time of Concentration (min)	6.0
Clear Peak Flow Rate (cfs)	1.844
Burned Peak Flow Rate (cfs)	1.844
24-Hr Clear Runoff Volume (ac-ft)	0.0735
24-Hr Clear Runoff Volume (cu-ft)	3203.7692



## Peak Flow Hydrologic Analysis

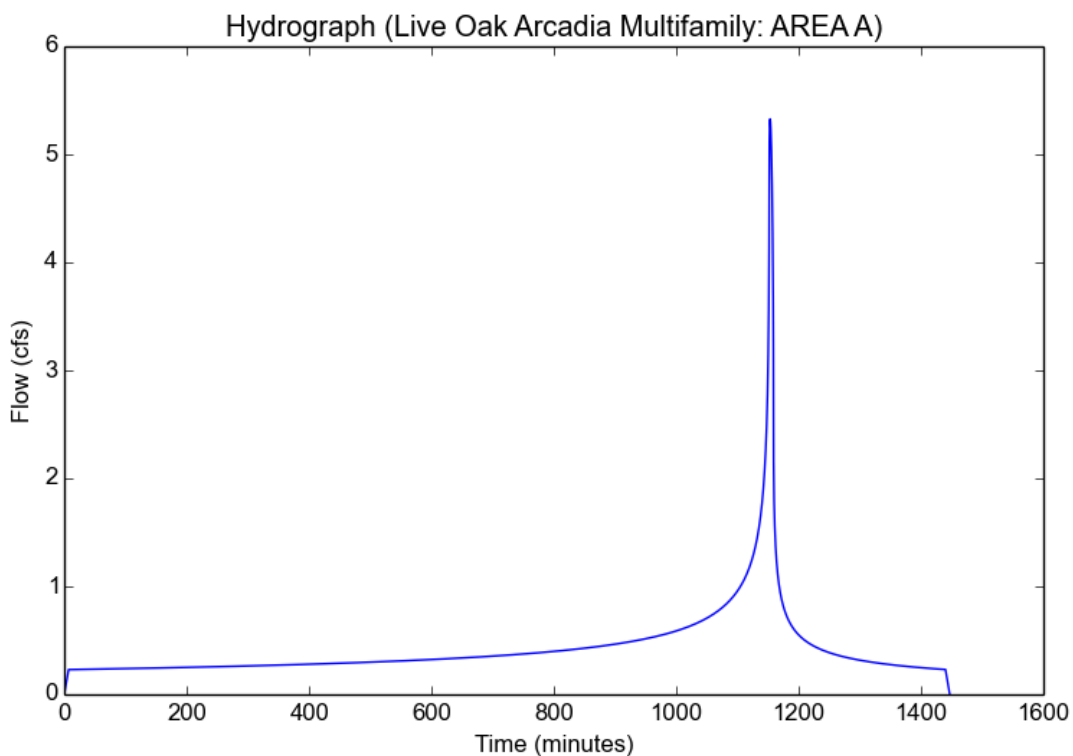
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Version: HydroCalc 1.0.2

### Input Parameters

Project Name	Live Oak Arcadia Multifamily
Subarea ID	AREA A
Area (ac)	1.71
Flow Path Length (ft)	500.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	6.8
Percent Impervious	0.99
Soil Type	6
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

### Output Results

Modeled (50-yr) Rainfall Depth (in)	6.8
Peak Intensity (in/hr)	3.4636
Undeveloped Runoff Coefficient (Cu)	0.8548
Developed Runoff Coefficient (Cd)	0.8995
Time of Concentration (min)	7.0
Clear Peak Flow Rate (cfs)	5.3279
Burned Peak Flow Rate (cfs)	5.3279
24-Hr Clear Runoff Volume (ac-ft)	0.8585
24-Hr Clear Runoff Volume (cu-ft)	37396.0271



## Peak Flow Hydrologic Analysis

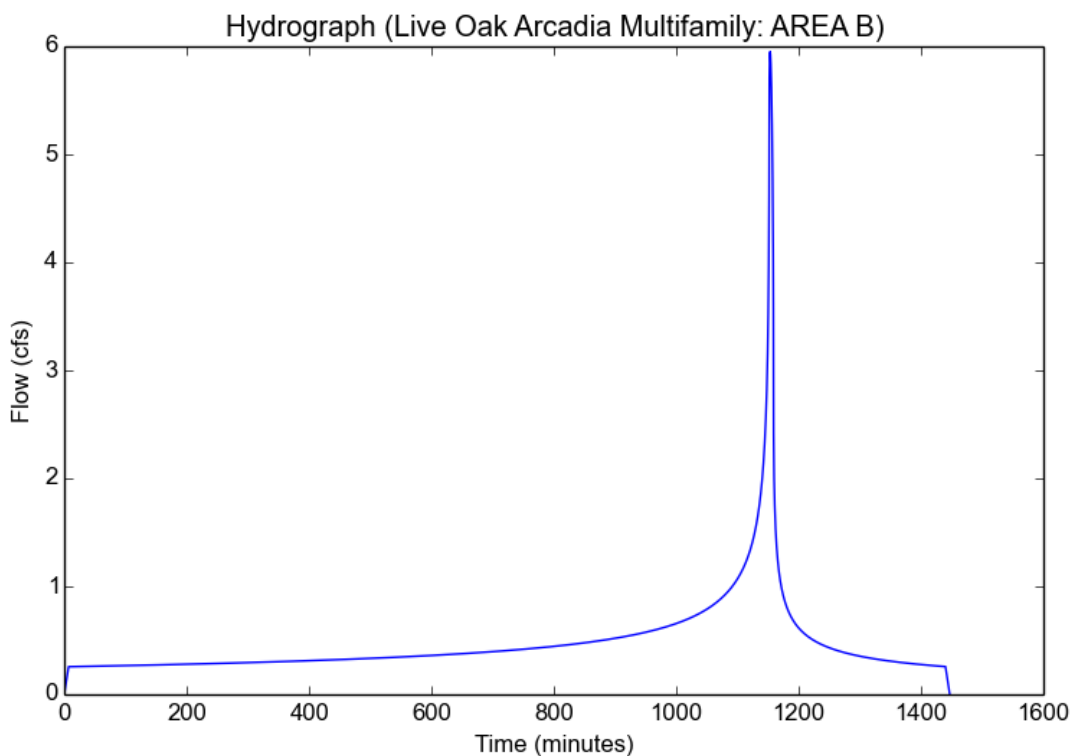
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Version: HydroCalc 1.0.2

### Input Parameters

Project Name	Live Oak Arcadia Multifamily
Subarea ID	AREA B
Area (ac)	1.91
Flow Path Length (ft)	500.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	6.8
Percent Impervious	0.99
Soil Type	6
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

### Output Results

Modeled (50-yr) Rainfall Depth (in)	6.8
Peak Intensity (in/hr)	3.4636
Undeveloped Runoff Coefficient (Cu)	0.8548
Developed Runoff Coefficient (Cd)	0.8995
Time of Concentration (min)	7.0
Clear Peak Flow Rate (cfs)	5.951
Burned Peak Flow Rate (cfs)	5.951
24-Hr Clear Runoff Volume (ac-ft)	0.9589
24-Hr Clear Runoff Volume (cu-ft)	41769.8314



## Peak Flow Hydrologic Analysis

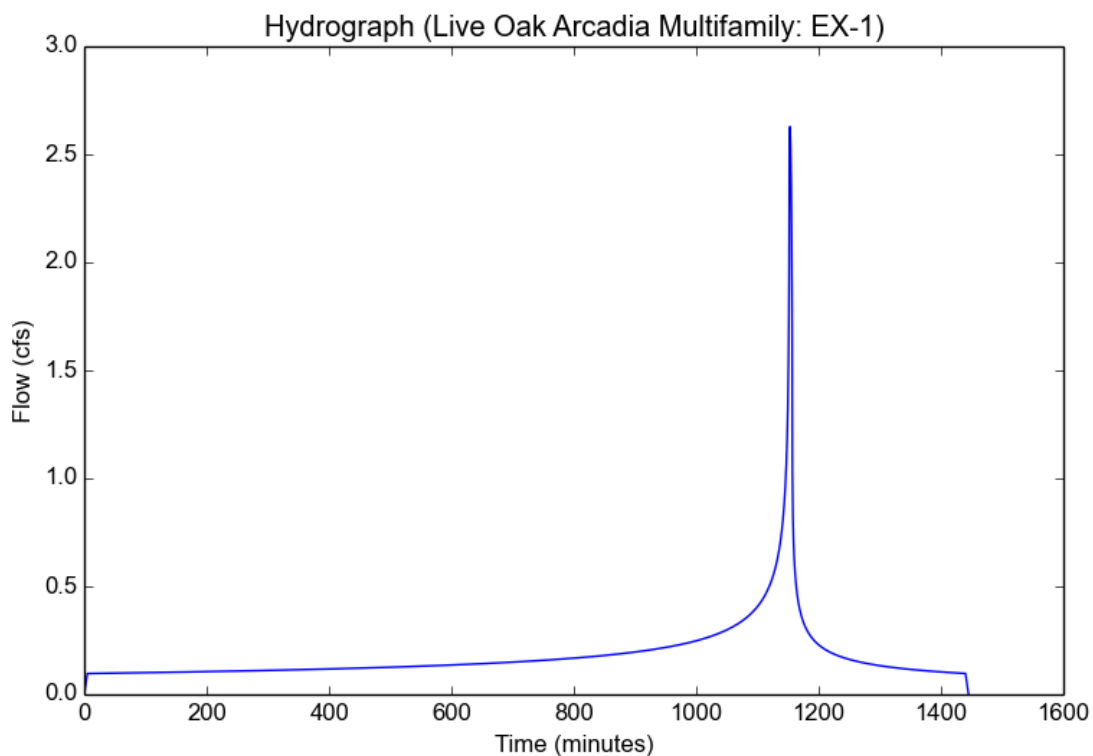
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Version: HydroCalc 1.0.2

### Input Parameters

Project Name	Live Oak Arcadia Multifamily
Subarea ID	EX-1
Area (ac)	0.72
Flow Path Length (ft)	220.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	6.8
Percent Impervious	0.99
Soil Type	6
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

### Output Results

Modeled (50-yr) Rainfall Depth (in)	6.8
Peak Intensity (in/hr)	4.0571
Undeveloped Runoff Coefficient (Cu)	0.8787
Developed Runoff Coefficient (Cd)	0.8998
Time of Concentration (min)	5.0
Clear Peak Flow Rate (cfs)	2.6284
Burned Peak Flow Rate (cfs)	2.6284
24-Hr Clear Runoff Volume (ac-ft)	0.3615
24-Hr Clear Runoff Volume (cu-ft)	15745.7616



## Peak Flow Hydrologic Analysis

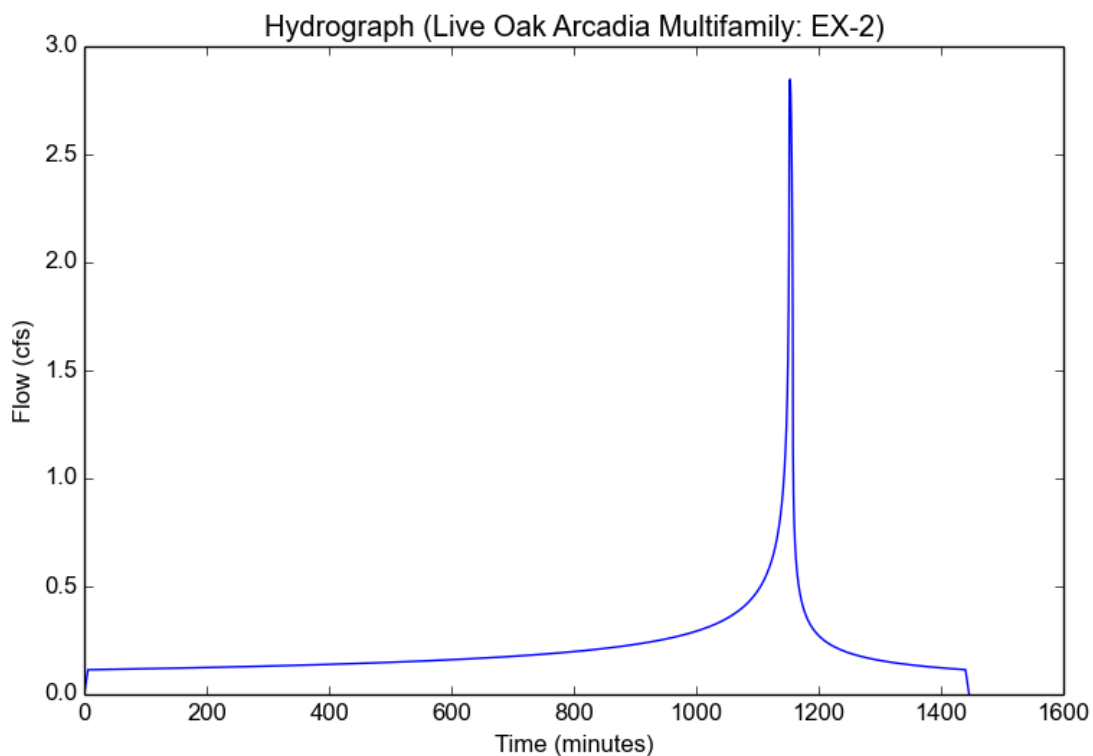
File location: K:/LDT\_LDEV/099648001-Live Oak Arcadia MF/Reports/H&H/Calculations/Live Oak Arcadia Multifamily - EX-2.pdf  
Version: HydroCalc 1.0.2

### Input Parameters

Project Name	Live Oak Arcadia Multifamily
Subarea ID	EX-2
Area (ac)	0.85
Flow Path Length (ft)	350.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	6.8
Percent Impervious	0.99
Soil Type	6
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

### Output Results

Modeled (50-yr) Rainfall Depth (in)	6.8
Peak Intensity (in/hr)	3.7239
Undeveloped Runoff Coefficient (Cu)	0.8659
Developed Runoff Coefficient (Cd)	0.8997
Time of Concentration (min)	6.0
Clear Peak Flow Rate (cfs)	2.8477
Burned Peak Flow Rate (cfs)	2.8477
24-Hr Clear Runoff Volume (ac-ft)	0.4267
24-Hr Clear Runoff Volume (cu-ft)	18588.7146



## Peak Flow Hydrologic Analysis

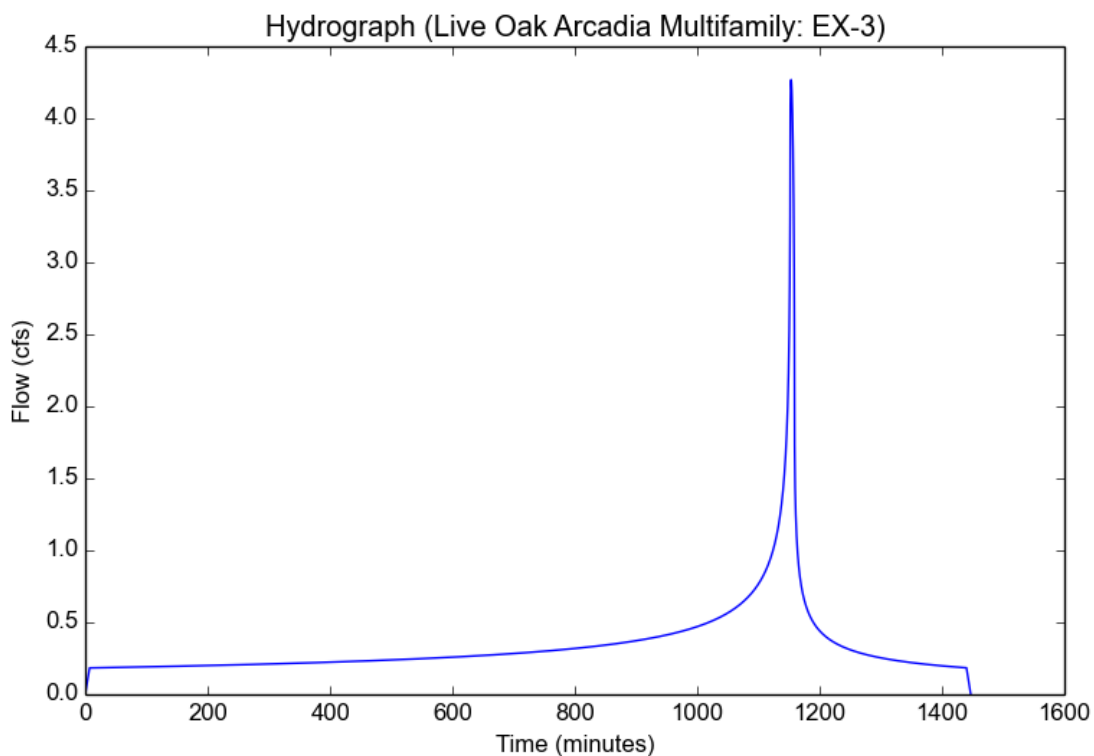
File location: K:/LDT\_LDEV/099648001-Live Oak Arcadia MF/Reports/H&H/Calculations/Live Oak Arcadia Multifamily - EX-3.pdf  
Version: HydroCalc 1.0.2

### Input Parameters

Project Name	Live Oak Arcadia Multifamily
Subarea ID	EX-3
Area (ac)	1.37
Flow Path Length (ft)	520.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	6.8
Percent Impervious	0.99
Soil Type	6
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

### Output Results

Modeled (50-yr) Rainfall Depth (in)	6.8
Peak Intensity (in/hr)	3.4636
Undeveloped Runoff Coefficient (Cu)	0.8548
Developed Runoff Coefficient (Cd)	0.8995
Time of Concentration (min)	7.0
Clear Peak Flow Rate (cfs)	4.2685
Burned Peak Flow Rate (cfs)	4.2685
24-Hr Clear Runoff Volume (ac-ft)	0.6878
24-Hr Clear Runoff Volume (cu-ft)	29960.5597



## Peak Flow Hydrologic Analysis

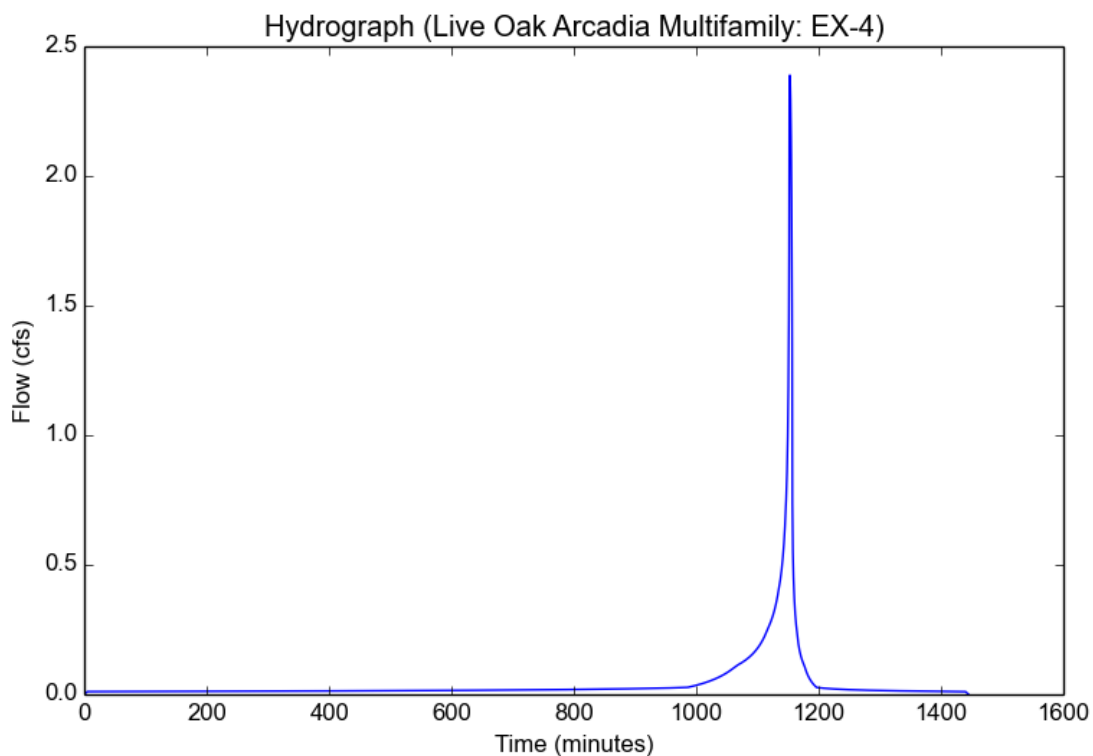
File location: K:/LDT\_LDEV/099648001-Live Oak Arcadia MF/Reports/H&H/Calculations/Live Oak Arcadia Multifamily - EX-4.pdf  
Version: HydroCalc 1.0.2

### Input Parameters

Project Name	Live Oak Arcadia Multifamily
Subarea ID	EX-4
Area (ac)	0.67
Flow Path Length (ft)	300.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	6.8
Percent Impervious	0.01
Soil Type	6
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

### Output Results

Modeled (50-yr) Rainfall Depth (in)	6.8
Peak Intensity (in/hr)	4.0571
Undeveloped Runoff Coefficient (Cu)	0.8787
Developed Runoff Coefficient (Cd)	0.8789
Time of Concentration (min)	5.0
Clear Peak Flow Rate (cfs)	2.389
Burned Peak Flow Rate (cfs)	2.389
24-Hr Clear Runoff Volume (ac-ft)	0.0908
24-Hr Clear Runoff Volume (cu-ft)	3956.7115





## Peak Flow Hydrologic Analysis

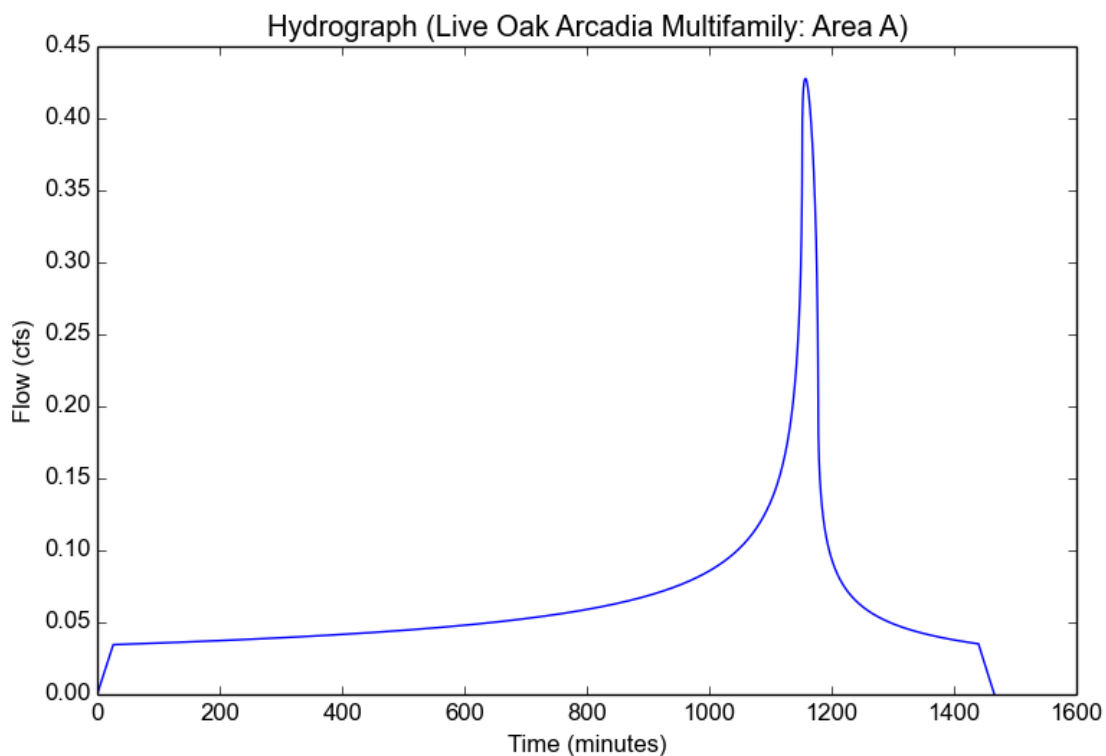
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Version: HydroCalc 1.0.2

### Input Parameters

Project Name	Live Oak Arcadia Multifamily
Subarea ID	Area A
Area (ac)	1.71
Flow Path Length (ft)	500.0
Flow Path Slope (vft/hft)	0.005
85th Percentile Rainfall Depth (in)	1.02
Percent Impervious	0.99
Soil Type	6
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

### Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.02
Peak Intensity (in/hr)	0.2804
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.892
Time of Concentration (min)	26.0
Clear Peak Flow Rate (cfs)	0.4277
Burned Peak Flow Rate (cfs)	0.4277
24-Hr Clear Runoff Volume (ac-ft)	0.1286
24-Hr Clear Runoff Volume (cu-ft)	5601.0232



## Peak Flow Hydrologic Analysis

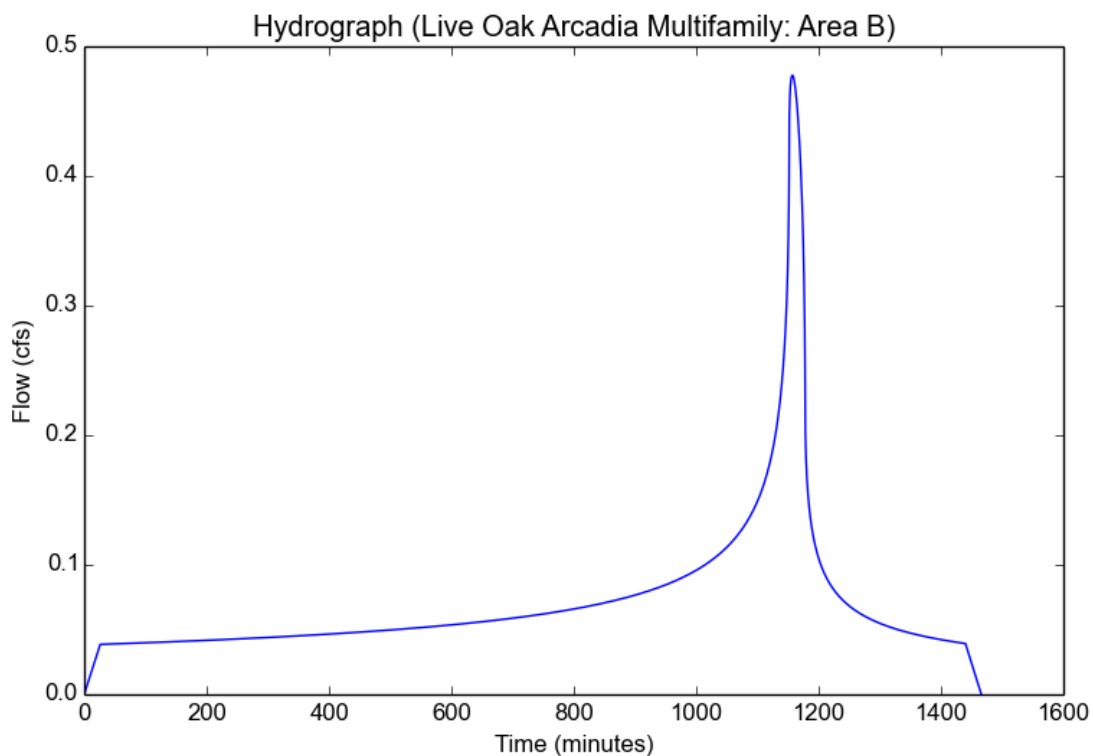
File location: K:/LDT\_LDEV/099648001-Live Oak Arcadia MF/Reports/LID/Calculations/Live Oak Arcadia Multifamily - Area B.pdf  
Version: HydroCalc 1.0.2

### Input Parameters

Project Name	Live Oak Arcadia Multifamily
Subarea ID	Area B
Area (ac)	1.91
Flow Path Length (ft)	500.0
Flow Path Slope (vft/hft)	0.005
85th Percentile Rainfall Depth (in)	1.02
Percent Impervious	0.99
Soil Type	6
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

### Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.02
Peak Intensity (in/hr)	0.2804
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.892
Time of Concentration (min)	26.0
Clear Peak Flow Rate (cfs)	0.4777
Burned Peak Flow Rate (cfs)	0.4777
24-Hr Clear Runoff Volume (ac-ft)	0.1436
24-Hr Clear Runoff Volume (cu-ft)	6256.1137



# Noise Impact Analysis

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# APPENDIX G

**NOISE IMPACT ANALYSIS**  
**LIVE OAK ARCADIA RESIDENTIAL**  
**COUNTY OF LOS ANGELES, CA**

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Westlake Village, CA, 91362

Date:

October 12, 2017

Project No.: P17-049 N

## NOISE SETTING

Sound is mechanical energy transmitted by pressure waves in a compressible medium such as air. Noise is generally considered to be unwanted sound. Sound is characterized by various parameters that describe the rate of oscillation of sound waves, the distance between successive troughs or crests, the speed of propagation, and the pressure level or energy content of a given sound. In particular, the sound pressure level has become the most common descriptor used to characterize the loudness of an ambient sound level.

Loud or soft, noisy or quiet, high-and-low pitch are all qualitative terms used to describe sound. These terms are relative descriptions. The science of acoustics attempts to quantify the human perception of sound into a quantitative and measurable basis. Amplitude is the measure of the pressure exerted by sound waves. Amplitude may be so small as to be inaudible by humans, or so great as to be painful. Frequency refers to pitch or tone. The unit of measure is in cycles per second called "hertz". Very low frequency bass tones and ultra-high frequency treble are difficult for humans to detect. Many noise generators in the ambient world are multi-spectral.

The decibel (dB) scale is used to quantify sound pressure levels. Although decibels are most commonly associated with sound, "dB" is a generic descriptor that is equal to ten times the logarithmic ratio of any physical parameter versus some reference quantity. For sound, the reference level is the faintest sound detectable by a young person with good auditory acuity.

Since the human ear is not equally sensitive to all sound frequencies within the entire auditory spectrum, human response is factored into sound descriptions by weighting sounds within the range of maximum human sensitivity more heavily in a process called "A-weighting," written as dB(A). Any further reference in this discussion to decibels written as "dB" should be understood to be A-weighted.

Leq is a time-averaged sound level; a single-number value that expresses the time-varying sound level for the specified period as though it were a constant sound level with the same total sound energy as the time-varying level. Its unit is the decibel (dB). The most common averaging period for Leq is hourly.

Because community receptors are more sensitive to unwanted noise intrusion during more sensitive evening and nighttime hours, state law requires that an artificial dBA increment be added to quiet time noise levels. The 24-hour noise descriptor with a specified evening and nocturnal penalty is called the Community Noise Equivalent Level (CNEL). CNEL's are a weighted average of hourly Leq's.

For "stationary" noise sources operating on private property, the County does have legal authority to establish noise performance standards designed to not adversely impact adjoining uses. These standards are articulated in Title 12 of the Los Angeles County Code.

## **PLANNING STANDARDS**

The State of California has established guidelines for acceptable community noise levels that are based upon the CNEL rating scale to insure that noise exposure is considered in any development, as shown in Table 1. CNEL-based standards apply to noise sources whose noise generation is preempted from local control (such as from on-road vehicles, trains, airplanes, etc.) and are used to make land use decisions as to the suitability of a given site for its intended use. These CNEL-based standards are articulated in the Noise Element of the General Plan. Local jurisdictions generally regulate the level of non-transportation noise that one use may impose upon another through a Noise Ordinance.

Since the Los Angeles County Noise Element does not specifically call out CNEL-based standards, the state standards, which are typical of most jurisdictions, were used as a guideline. As shown in Table 1, noise exposure of 65 dB CNEL is the exterior noise-land use compatibility guideline for usable space (balconies, patios, etc.), for multi-family dwelling units in California. Single family dwellings have a 60 dB CNEL recommended exposure. These standards must be met at the proposed residential bungalows. The normally acceptable noise level for golf course and recreational use extends up to 75 dB CNEL.

Los Angeles County is pre-empted from regulating on-road traffic noise. However, when traffic noise exceeds the planning standard for an affected land use, CNEL-based standards are the accepted significance threshold for any CEQA environmental analysis.

## **NOISE ORDINANCE STANDARDS**

For stationary noise sources located proximate to residential uses, Los Angeles County has adopted a detailed Noise Ordinance. Noise from one land use crossing the property line of an adjacent property, are regulated by Section 12.08.390 of the Los Angeles County Code. These standards are expressed in terms of a mean (50<sup>th</sup> percentile) noise level, which is the noise level allowed for up to 30 minutes in any hour. Some short-term noise levels may exceed the 50<sup>th</sup> percentile standard, up to a maximum of 20 dB above the allowable mean.

The Los Angeles County Noise Ordinance allowable exterior noise levels for various land uses are shown in Table 2. A mean noise level of 50 dB L<sub>50</sub> (50<sup>th</sup> percentile, or “L<sub>50</sub>”) by day and 45 dB L<sub>50</sub> for residential areas at night is the standard applicable at the nearest existing homes to the proposed project site. However, when these noise levels are already exceeded by ambient noise levels, then the ambient level becomes the standard. The ordinance also establishes the maximum allowable noise exposure for all land uses. In residential areas, daytime noise exposure is not to exceed 70 dB for any period of time, and nighttime noise exposure is not to exceed 65 dB for any period of time.

**Table 1**

**California Land Use Compatibility Guidelines  
for Exterior Community Noise**

Land Use	Community Noise Exposure CNEL, dB			
	Normally Acceptable	Conditionally Acceptable	Normally Unacceptable	Clearly Unacceptable
Single Family, Duplex, Mobile Homes	50-60	55-70	70-75	Above 75
Multi-Family Homes	50-65	60-70	70-75	Above 75
Schools, Libraries, Churches, Hospitals, Nursing Homes	50-70	60-70	70-80	Above 80
Transient Lodging: Motels, Hotels	50-65	60-70	70-80	Above 80
Auditoriums, Concert Halls, Amphitheaters	-	50-70	-	Above 65
Sports Arena, Outdoor Spectator Sports	-	50-75	-	Above 70
Playgrounds, Neighborhood Parks	50-70	-	67-75	Above 75
Golf Courses, Riding Stables, Water Recreation, Cemeteries	50-75	-	70-80	Above 80
Office Buildings, Business and Professional Commercial	50-70	67-77	Above 75	-
Industrial, Manufacturing, Utilities, Agriculture	50-75	70-80	Above 75	-

**Normally Acceptable:** Specified land use is satisfactory based upon the assumption that any buildings involved are of normal conventional construction, without any special noise insulation requirements.

**Conditionally Acceptable:** New construction or development should be undertaken only after a detailed analysis of the noise reduction requirements is made and needed noise insulation features included in the design. Conventional construction, but with closed windows and fresh air supply systems or air conditioning will normally suffice.

**Normally Unacceptable:** New construction or development should generally be discouraged. If new construction or development does proceed, a detailed analysis of the noise reduction requirements must be made and needed noise insulation features included in the design.

**Clearly Unacceptable:** New construction or development should generally not be undertaken.

Source: State of California Governor's Office of Planning and Research, General Plan Guidelines, 1990.



**Table 2**

**Los Angeles County Noise Standards**

Noise Zone	Land Use (Receptor Property)	Time Intervals	Exterior Noise Level (dB) for Standard Number				
			1 (L <sub>50</sub> )	2 (L <sub>25</sub> )	3 (L <sub>8.3</sub> )	4 (L <sub>1.7</sub> )	5 (L <sub>0</sub> )
I	Noise-Sensitive Area	Anytime	45	50	55	60	65
II	Residential Properties	10:00 p.m. to 7:00 a.m. (nighttime)	45	50	55	60	65
		7:00 a.m. to 10:00 p.m. (daytime)	50	55	60	65	70
III	Commercial Properties	10:00 p.m. to 7:00 a.m. (nighttime)	55	60	65	70	75
		7:00 a.m. to 10:00 p.m. (daytime)	60	65	70	75	80
IV	Industrial Properties	Anytime	70	75	80	85	90

Source: Los Angeles County Noise Ordinance, Exterior Noise Standards, Chapter 28.08, Part 3, Section 12.08.390.

1. **Los Angeles County Noise Standard No. 1, L<sub>50</sub>:** Noise levels which may not be exceeded for a cumulative period of more than 30 minutes in any hour. If the ambient L<sub>50</sub> exceeds the levels listed above, then the ambient L<sub>50</sub> becomes the exterior noise level for Standard No. 1.
2. **Los Angeles County Noise Standard No. 2, L<sub>25</sub>:** Noise levels which may not be exceeded for a cumulative period of more than 15 minutes in any hour. If the ambient L<sub>25</sub> exceeds the levels listed above, then the ambient L<sub>25</sub> becomes the exterior noise level for Standard No. 2.
3. **Los Angeles County Noise Standard No. 3, L<sub>8.3</sub>:** Noise levels which may not be exceeded for a cumulative period of more than 5 minutes in any hour. If the ambient L<sub>8.3</sub> exceeds the levels listed above, then the ambient L<sub>8.3</sub> becomes the exterior noise level for Standard No. 3.
4. **Los Angeles County Noise Standard No. 4, L<sub>1.7</sub>:** Noise levels which may not be exceeded for a cumulative period of more than 1 minute in any hour. If the ambient L<sub>1.7</sub> exceeds the levels listed above, then the ambient L<sub>1.7</sub> becomes the exterior noise level for Standard No. 4.
5. **Los Angeles County Noise Standard No. 5, L<sub>0</sub>:** Noise levels which may not be exceeded for any period of time. If the ambient L<sub>0</sub> exceeds the levels listed above, then the ambient L<sub>0</sub> becomes the exterior noise level for Standard No. 5.

## BASELINE NOISE LEVELS

Short term on-site noise measurements were made in order to document existing baseline levels in the project area. These help to serve as a basis for projecting future noise exposure from the project upon the surrounding community as well as determining project compatibility with the existing noise environment. Noise monitoring was conducted on Wednesday, October 4, 2017, from 3:00 p.m. – 3:45 p.m., at two area locations. Measurement locations are shown in Figure 1 and summarized below.

**Measured Noise Levels (dBA)**

<b>Site No.</b>	<b>Leq</b>	<b>Lmax</b>	<b>Lmin</b>	<b>L10</b>	<b>L33</b>	<b>L50</b>	<b>L90</b>
1	69	78	50	72	68	67	58
2	73	80	50	77	74	70	55

Meter 1 was located on Mayflower Avenue, approximately 80 feet north of the Live Oak Centerline. The noise level at Meter 1 was 69 dB Leq. Monitoring experience shows that 24-hour weighted CNEL's can be reasonably well estimated from mid-afternoon noise readings by adding +1 or 2 decibels. Meter 2 was located to the east, on the current empty lot about 50 feet north of the Live Oak Avenue centerline. Noise readings at Meter 2 were somewhat higher, with a 73 dB Leq.

**Figure 1**

**Noise Meter Locations**



2

## **NOISE SIGNIFICANCE CRITERIA**

Noise impacts are considered significant if they result in:

- a. Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies.
- b. Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels.
- c. A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project.
- d. A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project.

"Substantially" is not defined in any guidelines. The accuracy of sound level meters and of sound propagation computer models is no better than  $\pm 1$  dB. This is also the human loudness difference discrimination level under ideal laboratory conditions. Most people cannot distinguish a change in the noise environment that differs by less than 3 dB between the pre- and post-project exposure if the change occurs under ambient conditions. For the purposes of this analysis, a traffic noise increase of more than +3 dB that creates or worsens an area of noise/land use incompatibility would be considered a significant degradation of noise quality if it also would expose sensitive residential land uses to exterior noise levels greater than 65 dB CNEL.

## **SOURCES OF IMPACT**

Two characteristic noise sources are typically identified with general development such as the proposed residential development. Construction activities, especially heavy equipment, will create short-term noise increases near the project site. Upon completion, vehicular traffic on streets around the proposed project area may create a higher noise exposure. Traffic noise impacts are analyzed to ensure that the project does not adversely impact the acoustic environment of the surrounding community. In already-developed areas, the added land use intensity associated with a single project only increases traffic incrementally on existing roadways. These noise impacts are often masked by the baseline, and often preclude perception of any substantial noise level increase.

## **CONSTRUCTION NOISE SIGNIFICANCE**

The Los Angeles County Noise Ordinance restricts and regulates hours of construction operation and levels of construction noise. In Exterior Noise Standards, Chapter 28.08, Part 4, Specific Noise Restrictions, Section 12.08.440, construction noise is restricted from 7:00 p.m. to 7:00 a.m. weekdays and at any time on Sundays or holidays when it creates a noise disturbance across a residential or commercial property line.

As stated in Section 12.08.440 B, for noise restrictions at affected residential structures, the contractor is to conduct construction activities in such a manner that the maximum noise levels at the affected buildings will not exceed those listed as shown below. The ordinance is somewhat ambiguous in its definition of “maximum.” In practice, the ordinance is interpreted to refer to the maximum one-hour average Leq as the appropriate construction activity noise performance standard.

Construction noise is additionally addressed in Chapter 12 of the County Code. The Code prohibits disturbing noise near residential occupancies between 8 p.m. and 6:30 a.m. on any day and all day on Sunday (Section 12.12.030). It does not contain any numerical performance standards during allowed construction times. In light of the ordinance ambiguity in two minimally separated sections of the County Code, an intermediate definition of “maximum” as the loudest single hour is typically employed. For this study the more restrictive 7 a.m. to 7 p.m. noise standard is applied.

**County Standards:**

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

1. At Residential Structures.
  - a. Mobile Equipment. Maximum noise levels from non-scheduled, intermittent, and short-term operation (less than 10 days) of mobile equipment:

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

- b. Stationary Equipment Maximum noise level for repetitively scheduled and relatively long-term operation (period of 10 days or more) of stationary equipment:

	<b>Single-family Residential (dBA)</b>	<b>Multi-family Residential (dBA)</b>	<b>Semi-residential/ Commercial (dBA)</b>

Daily, except Sundays and legal holidays, 7:00 a.m. to 8:00 p.m.	60	65	70
Daily, 8:00 p.m. to 7:00 a.m. and all day Sunday and legal holidays.	50	55	60

## CONSTRUCTION NOISE IMPACTS

Temporary construction noise impacts vary markedly because the noise strength of construction equipment ranges widely as a function of the equipment used and its activity level. Short-term construction noise impacts tend to occur in discrete phases dominated by large, earth-moving equipment sources. Construction activities are treated separately in various community noise ordinances because they do not represent a chronic, permanent noise source.

Demolition or construction noise impacts vary markedly because the noise strength of construction equipment ranges widely as a function of the equipment used which changes during the course of the project. Construction noise tends to occur in discrete phases dominated initially by demolition and/or earth-moving sources and later for finish construction. Figure 2 shows the typical range of construction activity noise generation as a function of equipment used in various building phases. The earth-moving sources are seen to be the noisiest with equipment noise ranging up to about 90 dB(A) at 50 feet from the source. Spherically radiating point sources of noise emissions are atmospherically attenuated by a factor of 6 dB per doubling of distance, or about 20 dB in 500 feet of propagation. The loudest earth-moving noise sources may therefore sometimes be detectable above the local background beyond 1,000 feet from the construction area. An impact radius of 1,000 feet or more pre-supposes a clear line-of-sight and no other machinery or equipment noise that would mask project construction noise. With buildings and other barriers to interrupt line-of-sight conditions, the potential “noise envelope” around individual construction sites is reduced. Construction noise impacts are, therefore, somewhat less than that predicted under idealized input conditions.

Construction noise exposure can be further worsened when several pieces of equipment operate in close proximity. Because of the logarithmic nature of decibel addition, two equally loud pieces of equipment will be +3 dB louder than either one individually. Three simultaneous sources are +5 dB louder than any single source. Thus, while average operational equipment noise levels are perhaps 5 dB less than at peak power, simultaneous equipment operation can still yield an apparent noise strength equal to any individual source at peak noise output. Whereas the average heavy equipment reference noise level is 85 dB(A), short-term levels from either peak power or from several pieces operating in close proximity can be as high as 90 dB(A).

Point sources of noise emissions are atmospherically attenuated by a factor of 6 dB per doubling of distance. The loudest construction activities would require almost 280 feet of distance between the source and a nearby receiver to reduce the peak 90 dB source strength to the generally acceptable 75 dB exterior exposure level specified in the County Building Code.

The closest existing sensitive uses to the project site are the residential uses to the east and north. There is an approximate 25-foot buffer between the closest project building façade and existing residence to the east and a 40-foot separation to the closest residence on the north. It is not likely that the heaviest equipment would operate right along the property line, but construction noise at adjacent sensitive uses could be as high as 85 dB during demo and grading and 77 dB during construction. Typically, construction activity setback distances are much larger than the worst case estimates measured from the closest project property line

Mobile construction equipment will operate at varying setback distances as the equipment moves around the project site. The center of the site is more than 150 feet from adjacent uses on the northern boundary and more than 300 feet on the eastern boundary. If this is considered an average, then noise levels would be reduced by 10 dB at the northern site perimeter and 16 dB at the eastern perimeter. In addition, there is a 6-foot block wall along the residential property lines which will assist in noise reduction, however because the existing residences are multi-story and because the proposed project is 3-stories, the block wall would only mitigate ground level activities at the first story of the adjacent homes.

The limitation of construction activities to the daytime would prohibit construction noise during the hours when people normally sleep and would prohibit construction noise during the early morning and evening when people are typically within their home and more sensitive to noise effects. In addition, noise levels would be temporary and intermittent and comply with time of day requirements. Nevertheless, construction noise impacts may be noticeable at the adjacent residences and viewed as a temporary nuisance. In addition to time restrictions placed on permits, the following the following recommended measures are proposed to minimize any adverse noise impact.

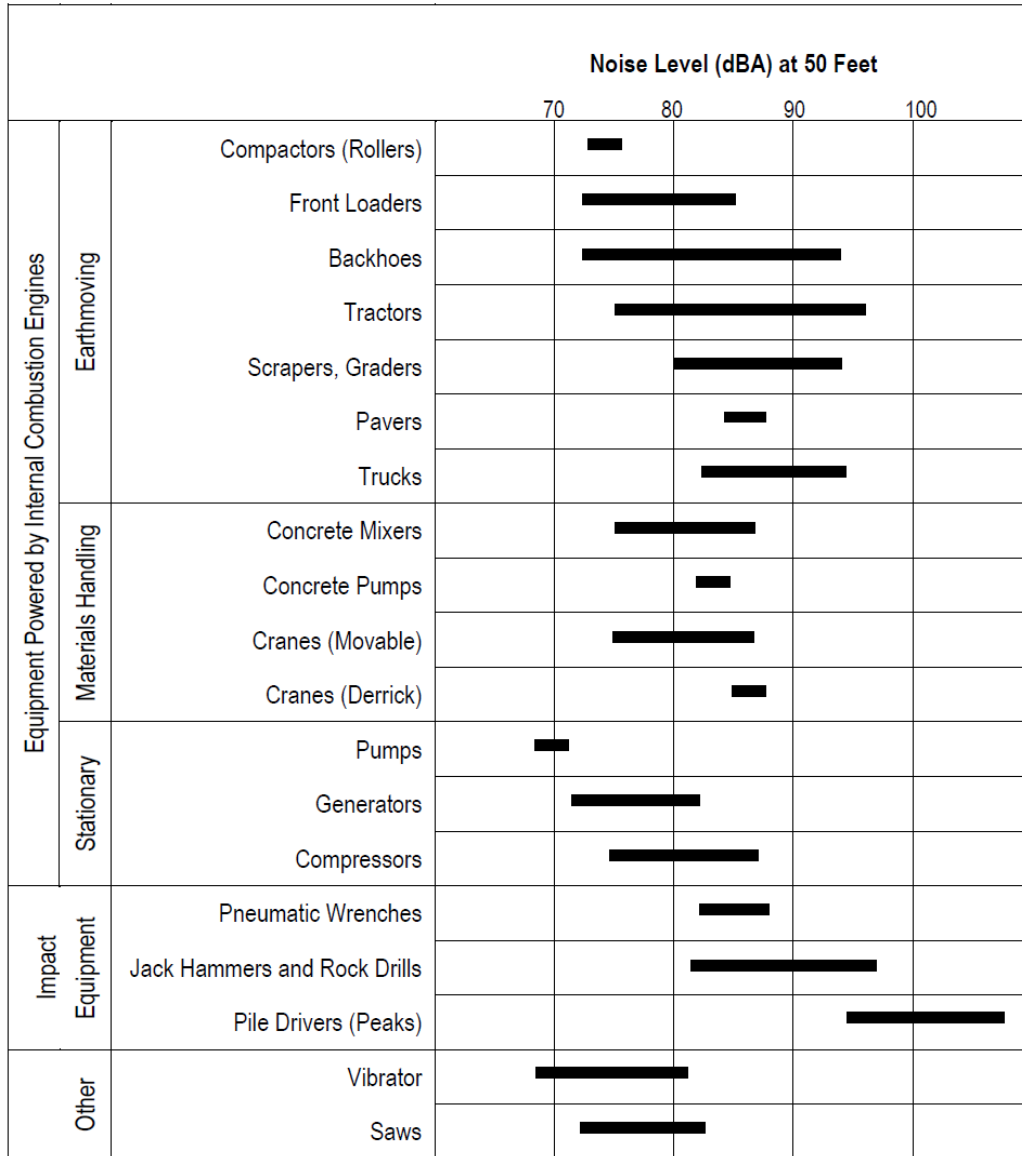
- When project construction staging occurs within 500 feet of an occupied residential structure the contractor shall:
  - Locate stationary construction equipment away from the occupied residential structure or install temporary acoustic barriers around stationary construction noise sources; and
  - Shut off construction equipment that is not in use.
- Project construction or grading activity shall be permitted during the following times:
  - Monday through Friday (non-legal Holidays) between 7:00 a.m. and 7:00 p.m. Saturdays between 8:00 a.m. and 6:00 p.m. No construction is permitted on Sundays or holidays.

These measures are included as conditions on any project construction permits and these limits will serve to minimize any adverse construction noise impact potential. Although construction equipment noise may be noticeable at times, construction noise impacts are minimized by time restrictions placed on permits which in addition to the recommended measures below will minimize any adverse noise impact.



Figure 2

## Typical Construction Equipment Noise Generation Levels



Source: EPA PB 206717, Environmental Protection Agency, December 31, 1971, "Noise from Construction Equipment and Operations."

## CONSTRUCTION ACTIVITY VIBRATION

Construction activities generate ground-borne vibration when heavy equipment travels over unpaved surfaces or when it is engaged in soil movement. The effects of ground-borne vibration include discernible movement of building floors, rattling of windows, shaking of items on shelves or hanging on walls, and rumbling sounds. Vibration related problems generally occur due to resonances in the structural components of a building because structures amplify groundborne vibration. Within the “soft” sedimentary surfaces of much of Southern California, ground vibration is quickly damped out. Groundborne vibration is almost never annoying to people who are outdoors (FTA 2006).

Groundborne vibrations from construction activities rarely reach levels that can damage structures. Because vibration is typically not an issue, very few jurisdictions have adopted vibration significance thresholds. Vibration thresholds have been adopted for major public works construction projects, but these relate mostly to structural protection (cracking foundations or stucco) rather than to human annoyance.

A vibration descriptor commonly used to determine structural damage is the peak particle velocity (ppv) which is defined as the maximum instantaneous positive or negative peak of the vibration signal, usually measured in in/sec. The range of such vibration is as follows in Table 3:

**Table 3**  
**Human Response To Transient Vibration**

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

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

Over the years, numerous vibration criteria and standards have been suggested by researchers, organizations, and governmental agencies. As shown in Table 4, according to Caltrans and the FTA, the threshold for structural vibration damage for modern structures is 0.5 in/sec for intermittent sources, which include impact pile drivers, pogo-stick compactors, crack-and-seat equipment, vibratory pile drivers, and vibratory compaction equipment. Older residential structures have a 0.3 in/sec threshold. Below this level there is virtually no risk of building damage.

**Table 4  
FTA and Caltrans Guideline Vibration Damage Potential Threshold Criteria**

<b>Building Type</b>	<b>PPV (in/sec)</b>
<b>FTA Criteria</b>	
Reinforced concrete, steel or timber (no plaster)	0.5
Engineered concrete and masonry (no plaster)	0.3
Non-engineered timber and masonry buildings	0.2
Buildings extremely susceptible to vibration damage	0.12
<b>Caltrans Criteria</b>	
Modern industrial/commercial buildings	0.5
New residential structures	0.5
Older residential structures	0.3
Historic old buildings	0.25
Fragile Buildings	0.1
Extremely fragile ruins, ancient monuments	0.08

To be conservative, the damage threshold of 0.3 in/sec for older residential structures was used in this analysis. The predicted vibration levels generated by construction equipment anticipated for use are shown below in Table 5.

**Table 5  
Estimated Vibration Levels During Project Construction**

<b>Equipment</b>	<b>PPV at 25 ft (in/sec)</b>	<b>PPV at 40 ft (in/sec)</b>	<b>PPV at 50 ft (in/sec)</b>	<b>PPV at 60 ft (in/sec)</b>	<b>PPV at 75 ft (in/sec)</b>
Large Bulldozer	0.089	0.044	0.031	0.024	0.017
Loaded trucks	0.076	0.037	0.027	0.020	0.015
Jackhammer	0.035	0.017	0.012	0.009	0.007
Small Bulldozer	0.003	0.001	<0.001	<0.001	<0.001

Source: FHWA Transit Noise and Vibration Impact Assessment

The calculation to determine PPV at a given distance is:

$$PPV_{\text{distance}} = PPV_{\text{ref}} * (25/D)^{1.5}$$

Where:

PPV<sub>distance</sub> = the peak particle velocity in inches/second of the equipment adjusted for distance,

PPV<sub>ref</sub> = the reference vibration level in inches/second at 25 feet, and

D = the distance from the equipment to the receiver.

The closest residence adjacent to the eastern project boundary is 25 feet from the closest building façade and the closest residence to the north has an approximate 40-foot distance separation. As seen in Table 5, the predicted vibration levels generated by construction equipment such as a large bulldozer would be below levels that could create structural damage of older residential structures (i.e., 0.3 in/sec) at these distances. Large bulldozers will not likely operate directly at the shared property line, and therefore, effects of vibration such as rattling windows is not expected to occur at the nearest structures. In the event that such equipment may pass directly along the property line of adjacent residences, vibration effects would only slightly exceed the “barely perceptible” response range, and for a very limited time, which would not be considered substantial.

## PROJECT-RELATED VEHICULAR NOISE IMPACTS

Long-term noise concerns from the development of residential uses at the project site center primarily on mobile source emissions on project area roadways. These concerns were addressed using the California specific vehicle noise curves (CALVENO) in the federal roadway noise model (the FHWA Highway Traffic Noise Prediction Model, FHWA-RD-77-108). The model calculates the Leq noise level for a particular reference set of input conditions, and then makes a series of adjustments for site-specific traffic volumes, distances, roadway speeds, or noise barriers.

The proposed project would create an additional 400 daily trips as compared to the previous use as a mobile home park. Approximately 40% of traffic would travel east on Live Oak, 30% would travel west on Live Oak, 25% would head north on Mayflower Avenue and 5% would go south on Mayflower Avenue.

Existing vehicle counts on Live Oak and Mayflower Avenue were obtained from the LA County traffic division. There are currently slightly more than 25,000 vehicles per day on Live Oak in the project vicinity and 1400 trips per day on Mayflower Avenue north of Live Oak. The addition of project traffic on the overall noise environment is as follows:

	Existing ADT	Additional Project ADT	Increase in Traffic Noise
Live Oak East	25,000	160	<0.1 dB
Live Oak West	25,000	120	<0.1 dB
Mayflower Ave North	14,000	100	+0.3 dB
Mayflower Ave South	14,000	14	<0.1 dB

The project would negligibly impact the noise environment. Because the area is built out and traffic volumes are already high, the addition of the projects 400 new daily trips would cause a maximum impact of +0.3 dB on Mayflower Avenue north of the site. This is less than the threshold of perception and therefore project traffic noise impacts are considered less than significant.

## **ONSITE NOISE IMPACTS**

The proposed residential uses are considered passive and not noise generators. The project would retain the existing driveway on Mayflower Avenue and the eastern driveway on Live Oak Avenue but remove the western driveway on Live Oak Ave. The project generates 21 new AM peak hour trips and 30 PM peak hour trips. Spread across the two access points there is minimal additional traffic and the access points are not adjacent to any sensitive uses.

## **NOISE IMPACT MITIGATION AND SUMMARY**

Short-term construction noise intrusion shall be mitigated by compliance with the County of Los Angeles Noise Ordinance. The allowed hours of construction are from 7 a.m. to 7 p.m. Monday through Friday. Construction noise could exceed 85 dB at the nearest sensitive use but is nevertheless minimized by the following conditions:

- Prior to construction, erect an 8-foot perimeter barrier along the northern shared property line to shield adjacent residences from the noisiest construction activities.
- All equipment shall be equipped with properly operating and maintained mufflers.
- Equipment and materials shall be staged in areas that will create the greatest distance between construction-related noise sources and the noise-sensitive receptors nearest the project site during all project construction.
- All construction-related activities shall be restricted to the construction hours outlined in the County's Noise Ordinance.
- Construction-related trucks traveling to and from the project site shall be restricted to the same hours specified for the operation of construction equipment. To the extent feasible, haul routes shall not pass directly by sensitive land uses or residential dwellings.

The project noise impact study indicates a less-than-significant noise impact from project-related traffic on project vicinity receptors. Project-related traffic will not cause noise standards to be exceeded, nor make measurably worse any existing noise levels.

Vehicles entering or leaving the site noise are not expected to create a significant noise impact.

# Traffic Analysis Memo

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# APPENDIX H



# ASSOCIATED TRANSPORTATION ENGINEERS

100 N. Hope Avenue, Suite 4, Santa Barbara, CA 93110 • (805) 687-4418 • FAX (805) 682-8509

Since 1978

Richard L. Pool, P.E.  
Scott A. Schell, AICP, PTP

June 20, 2017

17044L01

Charles Cohn  
Envicom Corporation  
4165 E. Thousand Oak Boulevard, Suite 290  
Westlake Village, CA 91362

## **TRAFFIC ANALYSIS FOR THE LIVE OAK RESIDENTIAL PROJECT, LOS ANGELES COUNTY**

Associated Transportation Engineers (ATE) has prepared the following traffic analysis for the Live Oak Residential Project (the "Project") proposed in Los Angeles County. It is understood that the analysis will be used by the County of Los Angeles for environmental review.

### **PROJECT DESCRIPTION**

The Project site is located at 4343 Live Oak Avenue in Los Angeles County just east of the City of Arcadia. The Project is proposing to demolish the existing Live Oak Mobile Home Park, which contains 56 mobile homes, and construct 86 condominium units. Figure 1 (attached) illustrates the Project site plan. The existing mobile home park is served by one driveway on Mayflower Avenue and two driveways on Live Oak Avenue. The Project would retain the existing driveway on Mayflower Avenue and the eastern driveway on Live Oak Avenue, but remove the western driveway on Live Oak Avenue (see Figure 1 – Project Site Plan).

### **PROJECT TRIP GENERATION**

Trip generation estimates were calculated for the proposed condominiums and the existing mobile homes to determine the level of new traffic that would be generated at the Project site. The condominium rates adopted by Los Angeles County were used to calculate the trip generation estimates for the 86 proposed condominiums. The Mobile Home Park rates



presented in the Institute of Transportation Engineers (ITE) Trip Generation manual<sup>1</sup> were used to calculate the trip generation estimates for the 56 mobile homes that will be removed for the site. Table 1 presents the average daily, AM peak hour, and PM peak hour trip generation estimates for the Project.

**Table 1  
Project Trip Generation**

Land Use	Size	Average Daily Trips		AM Peak Hour		PM Peak Hour	
		Rate	Trips	Rate	Trips (In/Out)	Rate	Trips (In/Out)
<b>Proposed:</b> Condominiums (a)	86 DU	8.00	688	0.54	46 (5/41)	0.73	63 (40/23)
<b>Existing:</b> Mobile Homes (b)	56 DU	4.99	279	0.44	25 (5/20)	0.59	30 (20/13)
<b>Net Change</b>			<b>+ 409</b>		<b>+ 21 (0/21)</b>		<b>+ 30 (20/10)</b>

(a) Trip generation calculated using LA County rates for condominiums.

(b) Trip generation calculated using ITE Mobile Home Park rates (ITE Land Use Code 240).

As shown in Table 1, the Project would generate a net increase of 409 ADT, with 21 new trips occurring during the AM peak hour and 30 new trips occurring during the PM peak hour.

## POTENTIAL IMPACTS

Potential traffic impacts were assess based on the Project trip generation estimates and the criteria outlined in the LA County traffic analysis guidelines.<sup>2</sup> As stated in the guidelines, "A traffic report is generally needed if a project generates over 500 trips per day or where other possible adverse impacts as discussed in the Analysis and Impact Section of these guidelines are identified." Traffic that would be generated by the Project (+ 409 ADT) is below the 500 trip-per-day thresholds that would trigger the need for a formal traffic study.

The LA County impact criteria for intersections was also applied to the Live Oak Avenue/Mayflower Avenue intersection located southwest of the Project site to further evaluate potential intersection impacts generated by the Project. The LA County impact criteria for intersections states, "Significant impacts to intersections are considered if the project-related increase in the volume to capacity (V/C) ratio equals or exceeds the thresholds shown below in Table 2."

<sup>1</sup> Trip Generation, Institute of Transportation Engineers, 9th Edition, 2012.

<sup>2</sup> Traffic Impact Analysis Report Guidelines, County of Los Angeles Department of Public Works, 1997.

**Table 2**  
**Los Angeles County Intersection Impact Thresholds**

Intersection Impact Thresholds		
Pre-Project		Project V/C Increase
LOS	V/C	
C	0.71 - 0.80	0.04 or more
D	0.81 - 0.90	0.02 or more
E/F	0.91 or more	0.01 or more

As listed in Table 1, the Project would generate a net increase of 21 AM peak hour trips and 30 PM peak hour trips to the surrounding street network. Figure 2 illustrates the Project's net traffic additions at the Live Oak Avenue/Mayflower Avenue intersection located immediately southwest of the Project site. The existing AM/PM peak hour operations at the Live Oak Avenue/Mayflower Avenue intersection are not known. However, the Project is forecast to add a net increase of 9 AM peak hour trips and 10 PM peak hour trips to the intersection (see Figure 2). These additional trips would result in V/C increases of less than 0.01 to the intersection during the AM and PM peak hours, an insignificant impact based on LA County impact criteria for intersections that operate at LOS E/F. The Project would add less traffic to other intersections near the Project site, also resulting in insignificant impacts.

### **SITE ACCESS**

The existing mobile home park is served by one driveway on Mayflower Avenue and two driveways on Live Oak Avenue. The Project would retain the existing driveway on Mayflower Avenue and the eastern driveway on Live Oak Avenue, but remove the western driveway on Live Oak Avenue. As shown on Figure 3, 16 AM peak hour trips and 25 PM peak hour trips are forecast at the driveway on Mayflower Avenue; and 30 AM peak hour trips and 38 PM peak hour trips are forecast at the driveway on Live Oak Avenue. The two driveways that are proposed for Project access would adequately accommodate the relatively low volume of traffic generated by the Project and not significantly affect traffic operations on Mayflower Avenue or on Live Oak Avenue.

This concludes our traffic analysis for the Live Oak Residential Project proposed in Los Angeles County. We appreciate the opportunity to assist you with the Project.

Associated Transportation Engineers

A handwritten signature in black ink, appearing to read "Scott A. Schell". The signature is fluid and cursive, with the first name "Scott" and last name "Schell" clearly legible.

Scott A. Schell, AICP, PTP  
Principal Transportation Planner

SAS/DLD

Attachments

Associated Transportation Engineers  
Trip Generation Worksheet

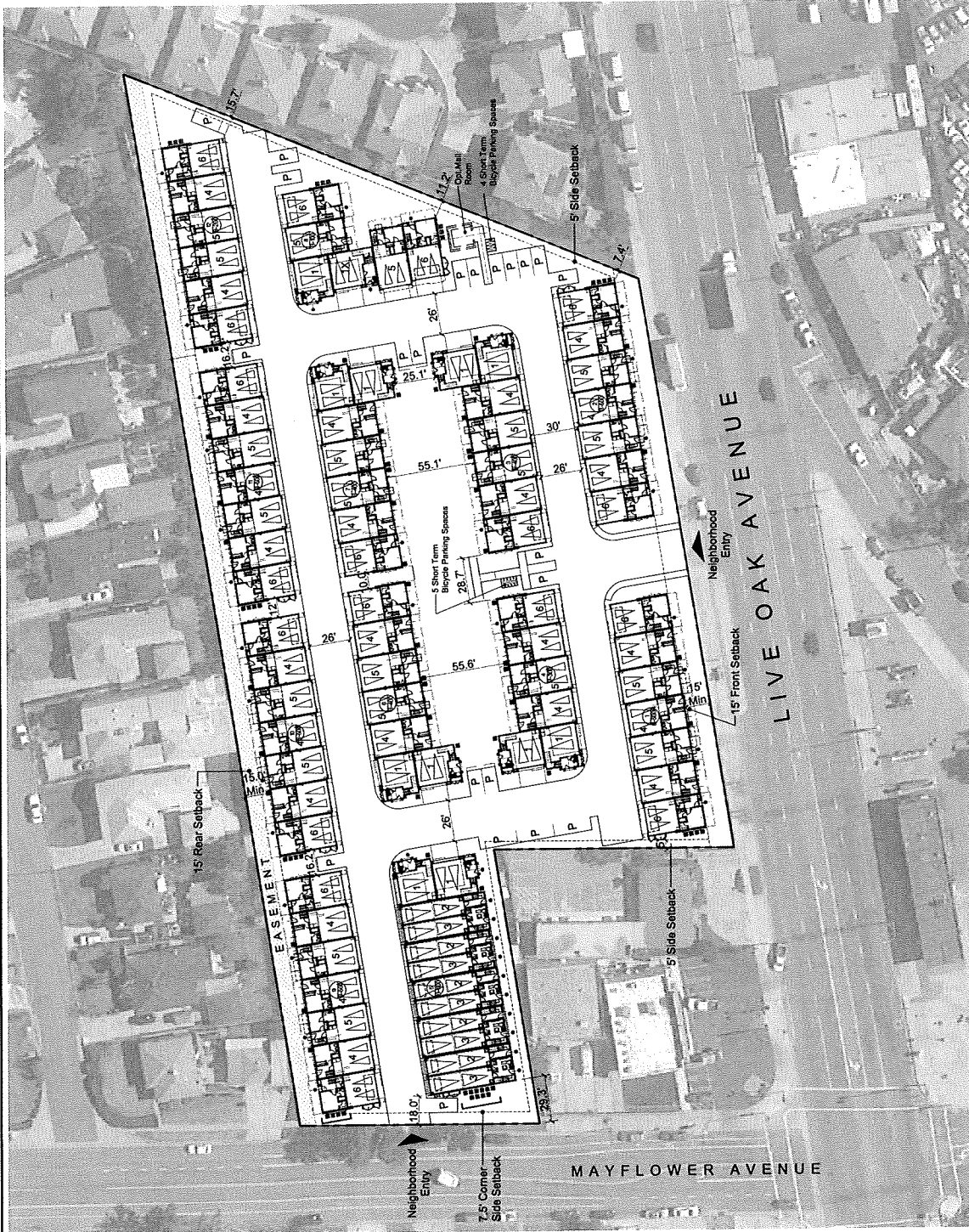
4343 LIVE OAK AVENUE PROJECT

Land Use	Size	ADT		A.M. PEAK HOUR						P.M. PEAK HOUR					
		Rate	Trips	Rate	Trips	In %	Trips	Out %	Trips	Rate	Trips	In %	Trips	Out %	Trips
<b>Proposed:</b>															
Condominiums(a)	86 DU	8.00	688	0.54	46	11%	5	89%	41	0.73	63	64%	40	36%	23
<b>Existing:</b>															
Mobile Homes(b)	56 DU	4.99	<u>279</u>	0.44	<u>25</u>	20%	<u>5</u>	80%	<u>20</u>	0.59	<u>33</u>	62%	<u>20</u>	38%	<u>13</u>
<b>NET CHANGE:</b>			<b>409</b>		<b>21</b>		<b>0</b>		<b>21</b>		<b>30</b>		<b>20</b>		<b>10</b>

(a) Trip generation based on LA County rates for condominiums.

(b) Trip generation based on ITE rates for Mobile Home Park (ITE Code 240).





PROJECT INFORMATION	
DATE:	2/23/2017
PROJECT:	27th St
CLIENT:	Francis + McKee Group, L.P.
DESIGNER:	Architecture + Planning
PROJECT NO.:	2017-06-06
SCALE:	AS SHOWN
DATE:	2/23/2017
PROJECT:	27th St
CLIENT:	Francis + McKee Group, L.P.
DESIGNER:	Architecture + Planning
PROJECT NO.:	2017-06-06
SCALE:	AS SHOWN
DATE:	2/23/2017
PROJECT:	27th St
CLIENT:	Francis + McKee Group, L.P.
DESIGNER:	Architecture + Planning
PROJECT NO.:	2017-06-06
SCALE:	AS SHOWN

SITE PLAN - ALTERNATE G SITE  
2017.06.06



NOT TO SCALE

FIGURE 1

EKM - ATE#17044

PARCEL  
#81-018-012 & #81-018-015

LIVE OAK - ARCADIA  
LA COUNTY, CA # 2017-0088

BAYERS  
11885 San Vicente Blvd,  
Los Angeles, CA 90048

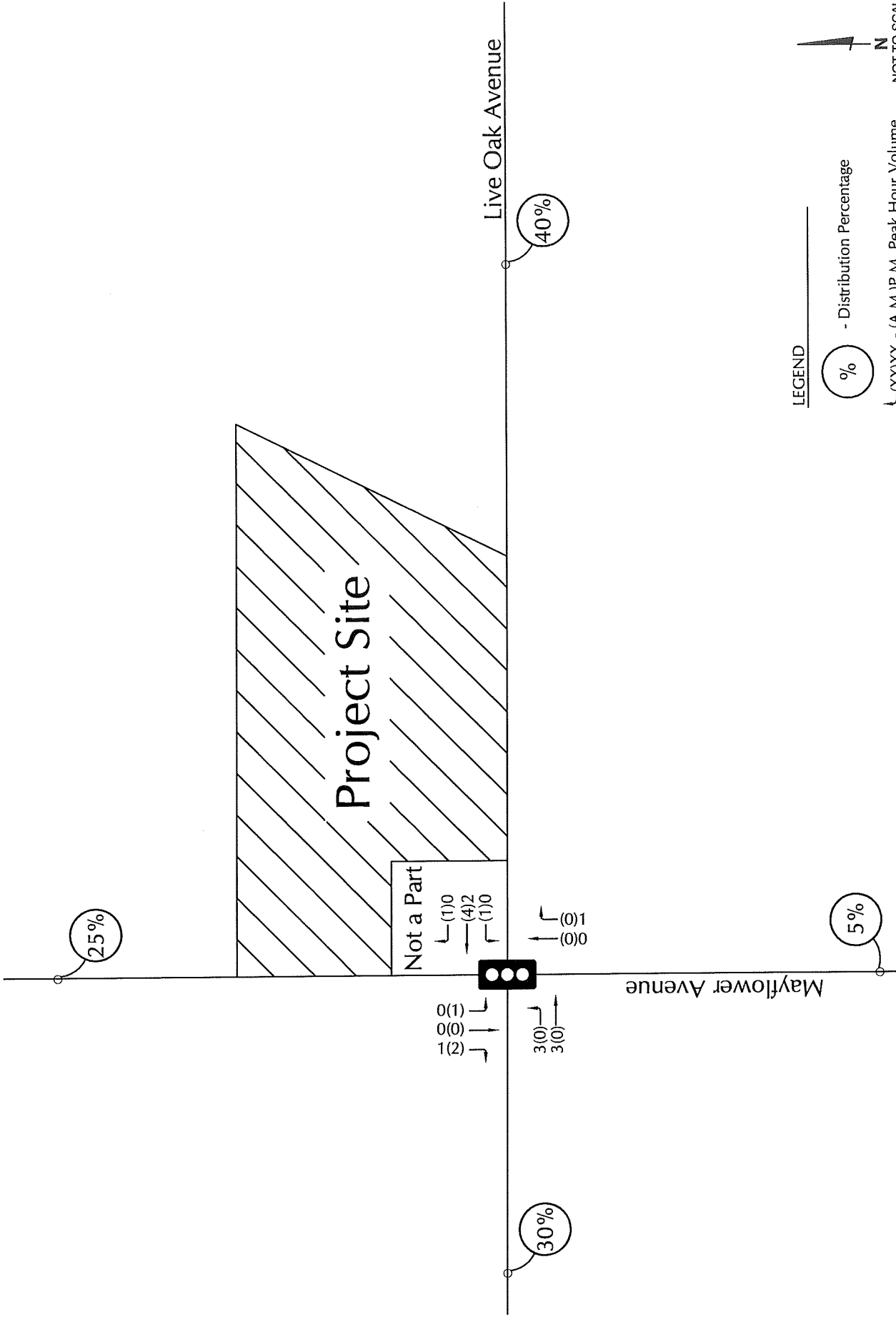
Architecture + Planning  
17911 Von Karman Ave.  
Torrance, CA 90504  
948.851.2133  
ktpg.com



PROJECT SITE PLAN

ASSOCIATED  
TRANSPORTATION  
ENGINEERS





LEGEND

% - Distribution Percentage

-(XXXX) - (A.M.)P.M. Peak Hour Volume

NOT TO SCALE

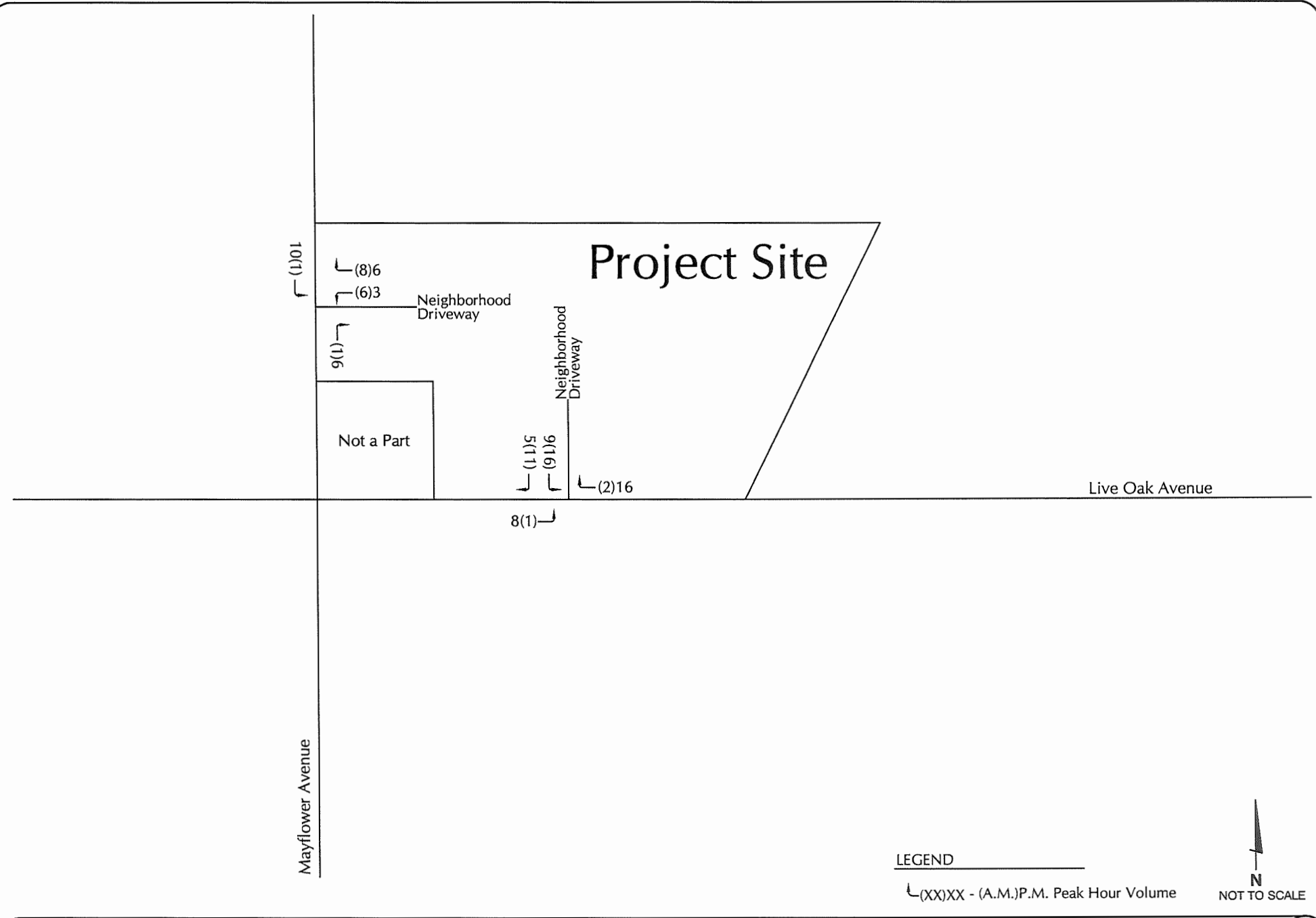


Project Trip Distribution and Assignment

FIGURE 2

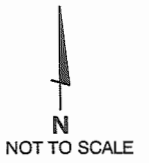
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ENGINEERS





LEGEND

└(XX)XX - (A.M.)P.M. Peak Hour Volume



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TRANSPORTATION  
ENGINEERS

DRIVEWAY VOLUMES

FIGURE 3

EKM - ATE#17044