

DRAFT ENVIRONMENTAL IMPACT REPORT  
VOLUME II

# Flair Spectrum Specific Plan



SCH 2014071044 | October 2014



# Flair Spectrum Specific Plan Appendix

SCH 2014071044  
October 2014

City of El Monte

This document is designed for double-sided printing to conserve natural resources

**Volume II – Appendix**

Appendix A	Scoping Materials
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Appendix C	Geotechnical Investigation
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Appendix F	Noise Study
Appendix G	Traffic Impact Analysis
Appendix H	Alternatives Data



## Appendix A Scoping Materials

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# Flair Spectrum El Monte Initial Study

*Prepared for:*

Flair Spectrum  
3033 W. Mission Road  
Alhambra, California 91803

*Reviewed by:*

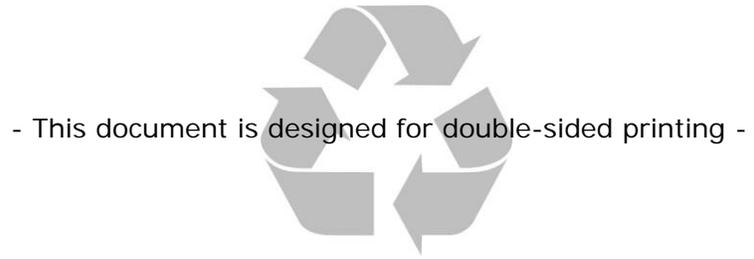
City of El Monte  
Planning Division  
11333 Valley Boulevard  
El Monte, California 91731

*Prepared by:*

MIG | Hogle-Ireland, Inc.  
1500 Iowa Avenue, Suite 110  
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July 2014



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# 1 Introduction

The City of El Monte (Lead Agency) received applications for a General Plan Amendment, Specific Plan, Conditional Use Permits, Vesting Tentative Tract Map, Design Review, and Development Agreement for a development located at 9400 Flair Drive. The approval of the applications constitutes a *project* that is subject to review under the California Environmental Quality Act (CEQA) 1970 (Public Resources Code, Section 21000 et seq.), and the state CEQA Guidelines (California Code of Regulations, Section 15000 et. seq.).

Pursuant to Section 15060(d) of the CEQA Guidelines, the City has determined that an Environmental Impact Report (EIR) will be required for this project. Section 15060(d) of the CEQA Guidelines declares as follows:

*If the lead agency can determine that an EIR will be clearly required for a project, the agency may skip further initial review of the project and begin work directly on the EIR process described in Article 9, commencing with Section 15080. In the absence of an initial study, the lead agency shall still focus the EIR on the significant effects of the project and indicate briefly its reasons for determining that other effects would not be significant or potentially significant.*

This Initial Study has been prepared to assess the short-term, long-term, and cumulative environmental impacts that could potentially result from the approval and implementation of the proposed project and to determine which potentially significant impacts will be analyzed in the EIR.

Comments from all responsible and trustee agencies are invited regarding the scope and content of environmental information contained in this Initial Study and Notice of Preparation. All comments on the Initial Study are to be submitted within 30 days:

Jason Mikaelian, Planning Services Manager  
City of El Monte  
Economic Development Department  
11333 Valley Boulevard  
El Monte, California 91731  
626-258-2064



## 2 Project Description

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### ***2.1 – Project Title***

Flair Spectrum El Monte

### ***2.2 – Lead Agency Name and Address***

City of El Monte  
Planning Division  
11333 Valley Boulevard  
El Monte, California 91731

### ***2.3 – Contact Person and Phone Number***

Jason Mikaelian, Planning Services Manager  
626-258-2064

### ***2.4 – Project Location***

The project site is located in the City of El Monte, Los Angeles County, California (See Exhibit 1, Regional Context and Vicinity Map). The project site is bound by Flair Drive and Interstate 10 to the north, Rio Hondo Avenue to the west, and commercial uses to the south and east.

- Latitude 34° 04' 13.91" North, Longitude 118° 03' 46.89" West
- Assessor's Parcel 8581-001-046, -025, and -029
- 9400 Flair Drive, El Monte, California, 91731

### ***2.5 – Project Sponsor's Name and Address***

Flair Spectrum, LLC  
3033 West Mission Road  
Alhambra, California 91803

### ***2.6 – General Plan Land Use Designation***

The project site is designated Office-Professional in the City of El Monte General Plan Land Use Element. The Office-Professional designation is intended for midrise office buildings with a Floor Area Ratio (FAR) of up to 1.5 and limited supporting retail, services, hospitality and other uses. Typical uses envisioned for this area include national and regional offices, financial institutions, government, Fortune 500 companies, and medical related offices.

### ***2.7 – Zoning District***

The City of El Monte Zoning Ordinance designates the project site as Office-Professional (OP).

## Project Description

### ***2.8 – Project Description***

The proposed project is located on approximately 14.66 acres. The proposed project includes the construction of a mixed-use development. The proposed development will include two 18-story residential buildings with a combined 600 dwelling units above a five-story to eight-story parking structure on the east and west ends. Additionally, shared common outdoor space will be provided for residents in the form of a “green deck” on the roof of the residential parking structure between the two residential buildings. The development will also include 500,000 square feet of retail use on two floors as well as 50,000 square feet of restaurant space located on the third floor roof deck. Below the retail development is a two-story parking structure with one level below grade. Also included in the development is an eleven-story hotel with 220 rooms (see Exhibit 2, Conceptual Site Plan and Exhibit 3, Conceptual Color Perspective).

The Specific Plan includes the option for up to twenty percent of the proposed retail square footage to be developed as office use. This will result in 100,000 square feet of office and 400,000 square feet of retail in addition to the residential, hotel, and restaurant use that will remain the same.

#### Construction

Construction of the proposed project will occur in two phases. Phase I will consist of the construction of the hotel, retail, and parking. This phase is anticipated to begin January 2015 and take approximately 16 months to complete. Construction of the residential use will occur during Phase II. Phase II is anticipated to begin October 2017 and take approximately 14 months to complete.

#### Grading

Because one level of below-grade parking is proposed, export of soil will be required. Construction of the hotel, retail, and residential use will require the export of approximately 2,500 cubic yards, 13,509 cubic yards, and 9,352 cubic yards, respectively.

#### Landscaping

The project includes landscaping through the project site including rooftop plaza areas on the retail roof top and a green deck for residential use.

#### Utilities

The proposed project will connect to existing water and sewer mains. Sewer mains are maintained by the City of El Monte and wastewater is treated at the Whittier Narrows Water Reclamation Plant operated by the Sanitation Districts of Los Angeles County. Potable water will be provided by the San Gabriel Valley Water Company. Electricity and natural gas will be provided by Southern California Edison and Southern California Gas Company.

### ***2.9 – Surrounding Land Uses***

The proposed project is bounded on the north by Flair Drive and Interstate 10 (transportation uses). North of the Freeway are single family residential uses. The land uses to the west, east, and south are all commercial. Surrounding uses are summarized in Table 1 (Surrounding Land Uses).

**Table 1  
Surrounding Land Uses**

Direction	General Plan Designation	Zoning District	Existing Land Use
Project Site	Office-Professional	Office-Professional (OP)	Vacant
North*	Low Density Residential	Single Family Residential (R-1)	Freeway Right-of-Way Single-Family Residential
South	Office-Professional	Office-Professional (OP)	Commercial/Retail
East	Office-Professional	Office-Professional (OP)	Commercial/Retail
West	Office-Professional	Office-Professional (OP)	Commercial/Retail
* City of Rosemead			

**2.10 – Environmental Setting**

The project is located on a previously developed site in El Monte, Los Angeles County, California. Previous development on the project site has been recently demolished. The site is currently vacant and contains demolition debris and ornamental landscaping, including some mature trees. The project site is surrounded by commercial uses and the area is completely built-out and urbanized. The project site was previously developed with two industrial buildings, parking areas, and concrete slabs. The site was previously occupied by an industrial use for the manufacture of external aircraft fuel drop tanks and aircraft assembly since approximately 1953 until approximately 2010. All structures and concrete pads have been recently demolished. Demolition debris and remaining landscaping, including some mature trees, remain on the project site. The site is bound to the north by Flair Drive, to the south by commercial uses, to the east by commercial uses, and to the west by Rio Hondo Avenue. Interstate 10 (I-10) is located to the north of the project site, north of Flair Drive. The site is approximately 3.6 miles west of I-605, 2 miles north of SR-60, and 5.8 miles east of I-710. The project site is fairly level with elevations ranging from approximately 252 feet above mean sea level at the south end of the site and 258 feet above mean sea level at the north end of the site. Exhibit 4 (Photographic Survey) provides details on the existing conditions of the project site and surrounding uses. Note that the aerial photograph reflects the pre-demolition condition of the site.

**2.11 – Required Approvals**

The City of El Monte is the only land use authority for this project requiring the following approvals for entitlement of the project:

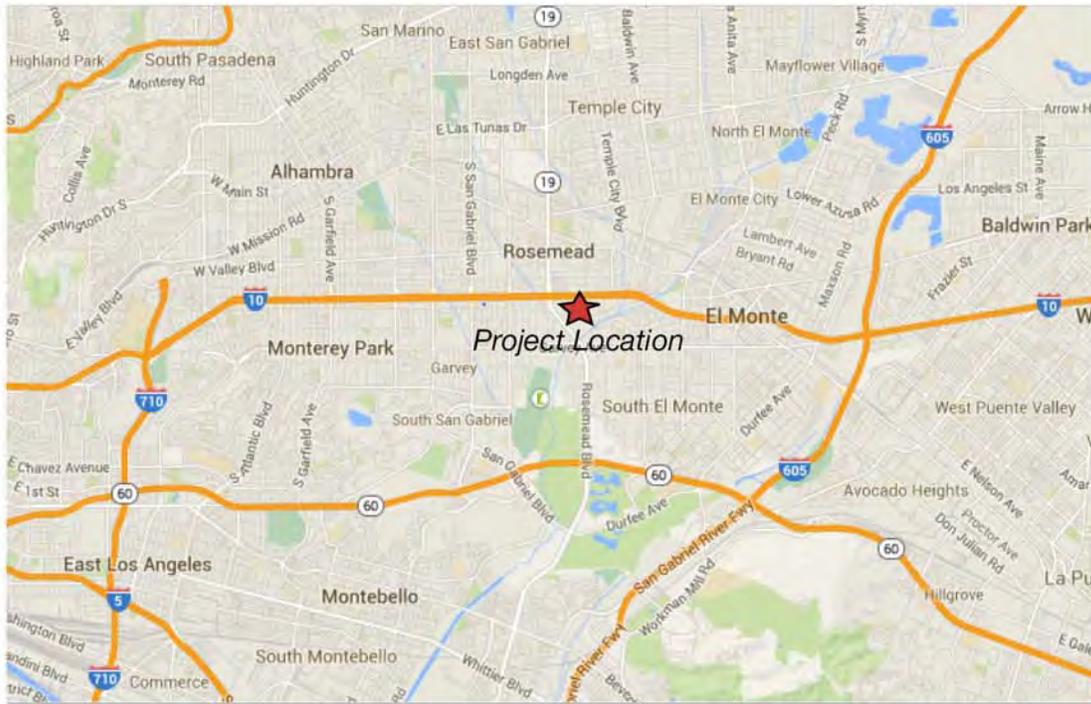
- Conditional Use Permit (hotel)
- Conditional Use Permit (residences)
- Vesting Tentative Tract Map
- Design Review (architecture, materials, colors, and landscaping)
- Development Agreement
- General Plan Amendment
- Specific Plan

**2.12 – Other Public Agency Whose Approval is Required**

None

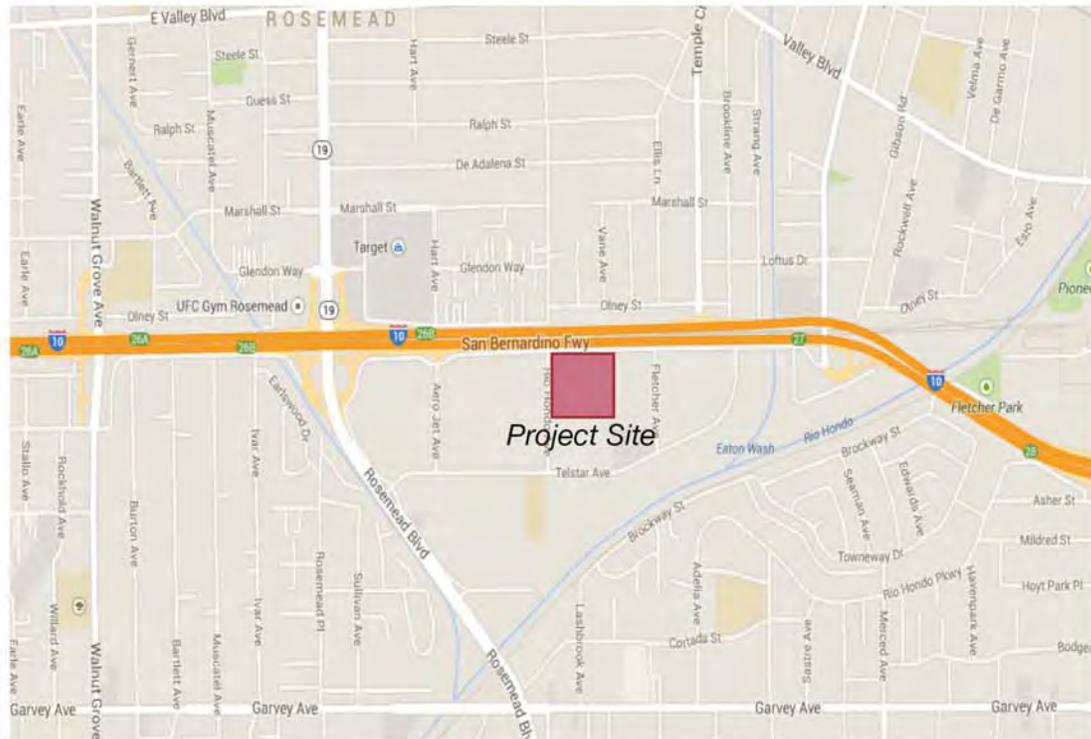
## Project Description





Source: Google Maps

Regional



Source: Google Maps

Vicinity

## Exhibit 1 Regional and Vicinity Map

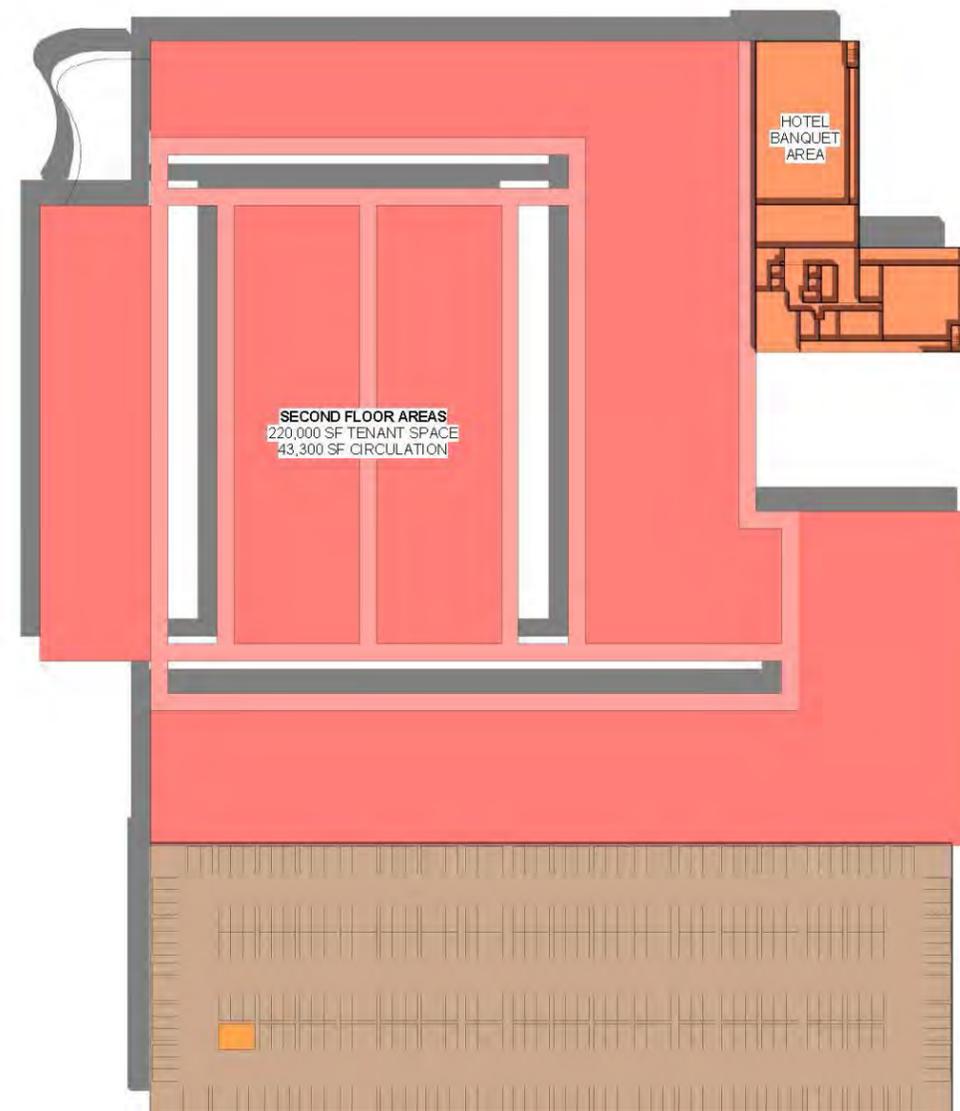
## Project Description





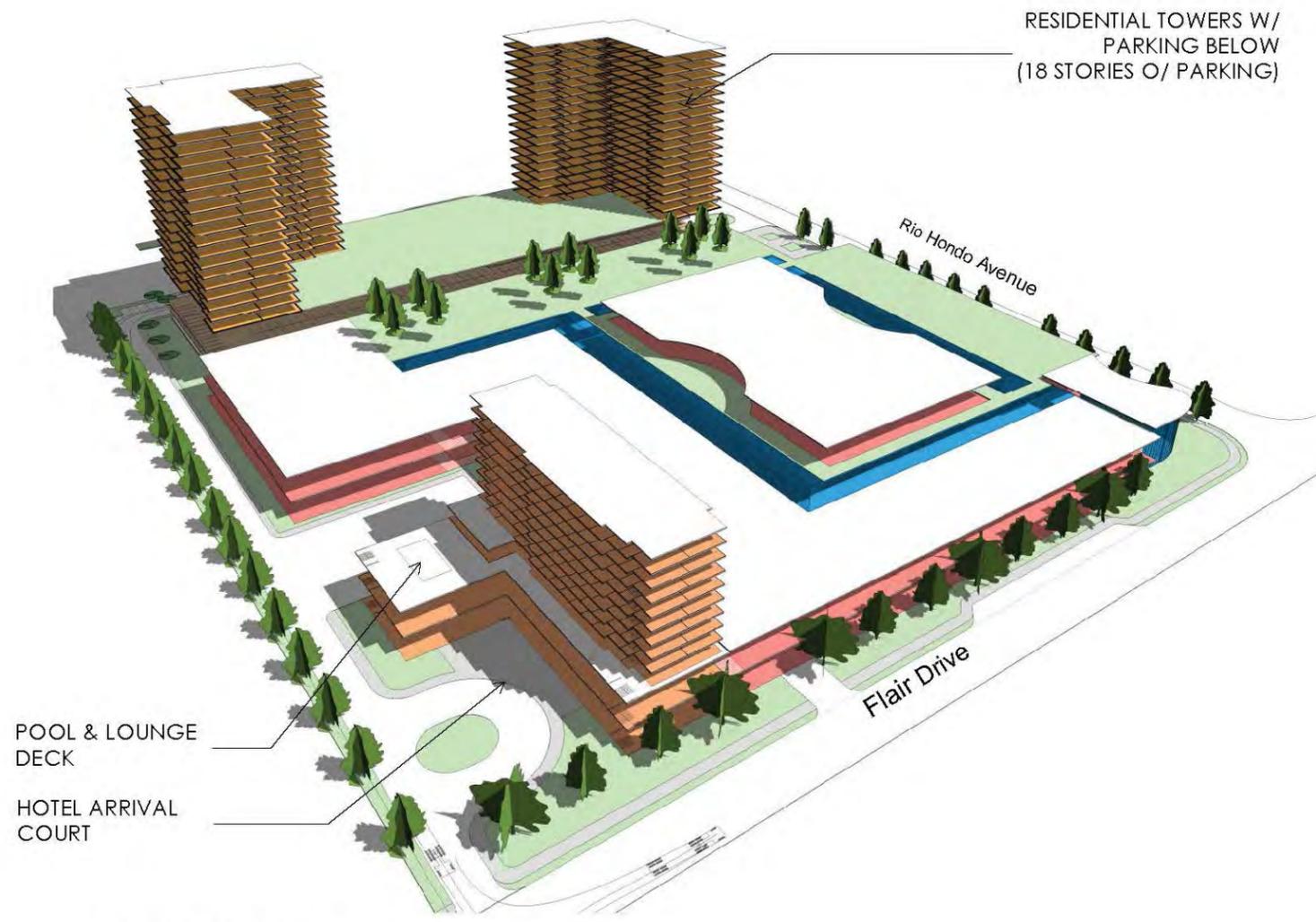
**1** RETAIL LEVEL 1  
1" = 60'-0"

2-STORY RETAIL OPTION (UNDERGROUND PARKING)



**2** RETAIL LEVEL 2  
1" = 60'-0"





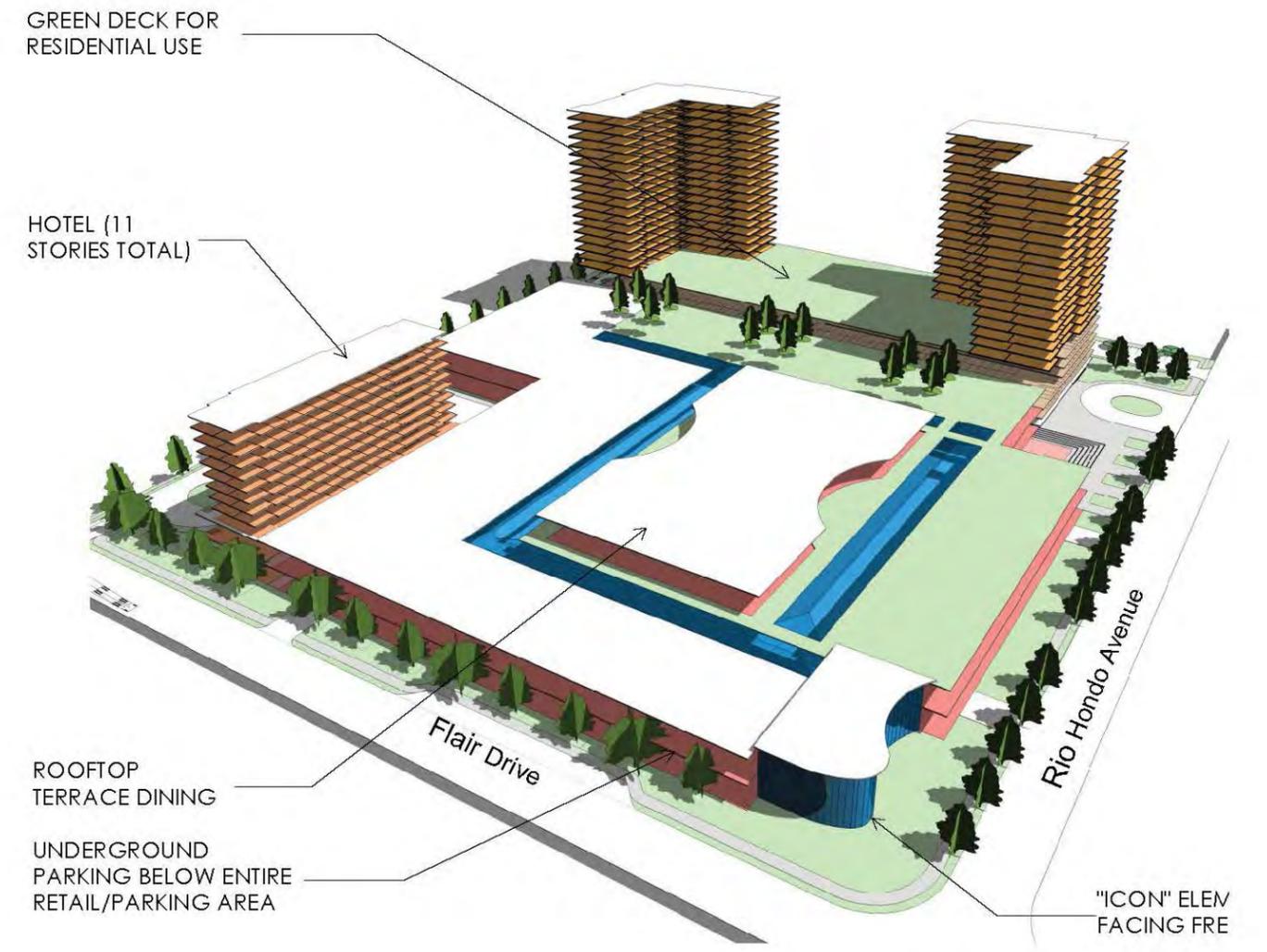
POOL & LOUNGE DECK  
HOTEL ARRIVAL COURT

RESIDENTIAL TOWERS W/  
PARKING BELOW  
(18 STORIES O/ PARKING)

Rio Hondo Avenue

Flair Drive

**2** NORTHEAST PERSPECTIVE



GREEN DECK FOR  
RESIDENTIAL USE

HOTEL (11  
STORIES TOTAL)

ROOFTOP  
TERRACE DINING

UNDERGROUND  
PARKING BELOW ENTIRE  
RETAIL/PARKING AREA

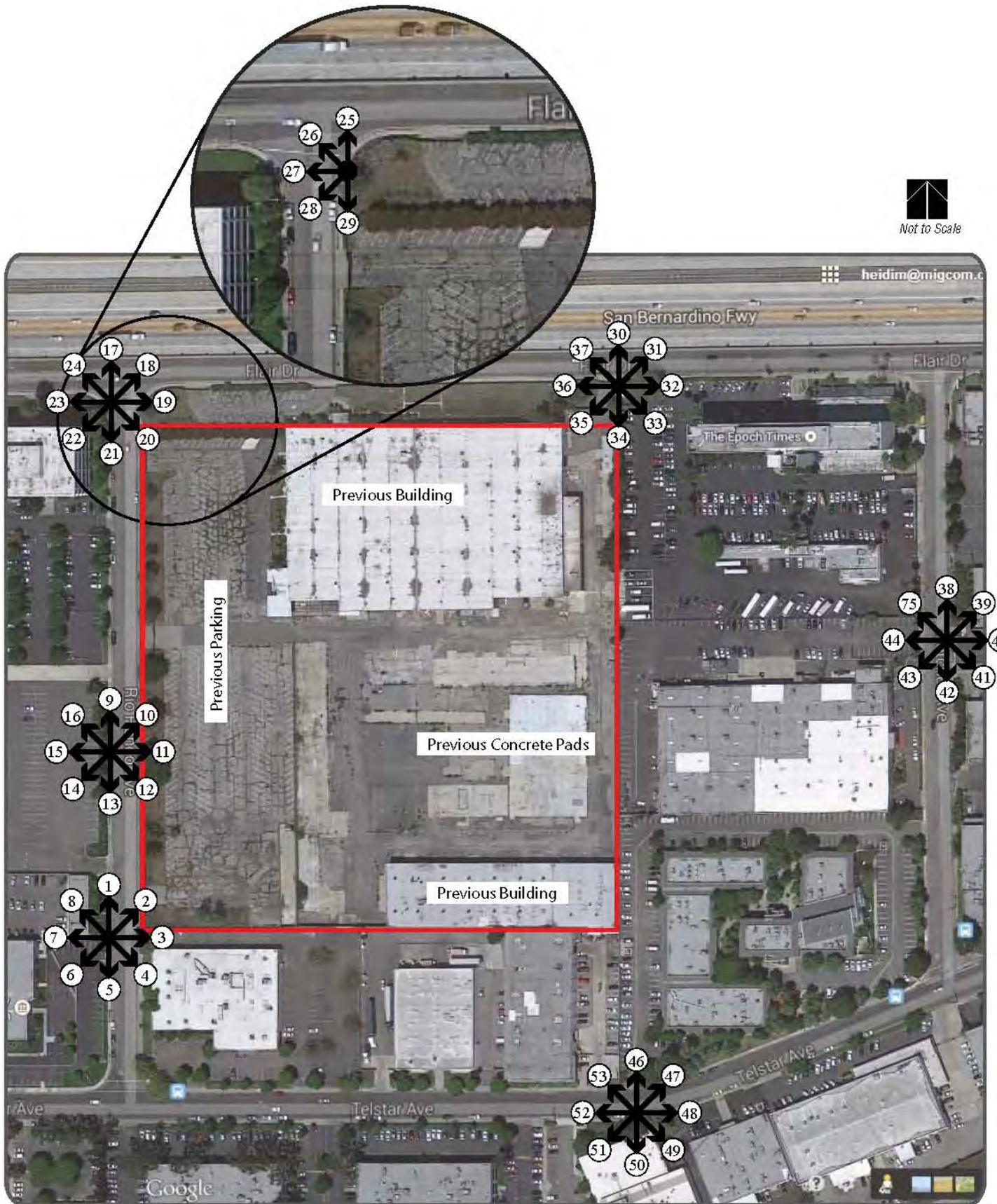
Flair Drive

Rio Hondo Avenue

"ICON" ELEM  
FACING FRE

**1** NORTHWEST PERSPECTIVE





## Project Description





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## Exhibit 4a Photographic Survey

## Project Description





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## Project Description





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## Exhibit 4c Photographic Survey

## Project Description





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## Project Description





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## Project Description





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## Project Description





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## Project Description





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## Project Description



### 3 Determination

#### 3.1 – Environmental Factors Potentially Affected

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

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

#### 3.2 – Determination

<input type="checkbox"/>	I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
<input type="checkbox"/>	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.
<input checked="" type="checkbox"/>	I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
<input type="checkbox"/>	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.
<input type="checkbox"/>	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.

Name:  Jason Mikaelian, Planning Service Manager

Date: 7/10/14

**Determination**



## 4 Evaluation of Environmental Impacts

### 4.1 – Aesthetics

Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Have a substantial adverse effect on a scenic vista?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within view from a state scenic highway?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Substantially degrade the existing visual character or quality of the site and its surroundings?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

a) **Potentially Significant Impact.** Scenic vistas can be impacted by development in two ways. First, a structure may be constructed that blocks the view of a vista. Second, the vista itself may be altered (i.e., development on a scenic hillside). There are no scenic vistas listed in the El Monte General Plan and the proposed project site is not designated as a highly scenic area by the Department of Parks and Recreation or by any local plan or ordinance. The proposed project is located on a previously developed site on East Flair Drive directly south of I-10 in the City of El Monte, within a fully urbanized area visually dominated by commercial land uses and surface streets. However, this site is located within view of the San Gabriel Mountains and development of the proposed project may have an impact on views of these mountains from properties to the south. As such, the proposed project could result in potentially significant impacts to views of scenic vistas and these impacts will be evaluated further in an Environmental Impact Report (EIR).

b) **No Impact.** The proposed project is not adjacent to a designated state scenic highway or eligible state scenic highway as identified on the California Scenic Highway Mapping System.<sup>1</sup>

<sup>1</sup> California Department of Transportation. California Scenic Highway Mapping System: Los Angeles County. [http://www.dot.ca.gov/hq/LandArch/scenic\\_highways/index.htm](http://www.dot.ca.gov/hq/LandArch/scenic_highways/index.htm). [June 2014]

## Evaluation of Environmental Impacts

The General Plan does not list I-10 or Flair Drive for consideration as an urban or hillside scenic highway.<sup>2</sup> The project site is located in a previously developed, urbanized area, and contains no scenic resources such as unique geologic structures, or historic structures viewable from a state scenic highway. There are currently some mature trees located on the project site. A tree survey will need to be prepared to determine if any of the existing trees are protected under the El Monte Municipal Code. Pursuant to El Monte Municipal Code Chapter 14.03 (Tree Protection and Preservation), all trees that are removed shall be replaced with a tree ratio of 2:1 from the City's recommended tree palette or an in lieu fee shall be paid to the City's tree mitigation and planting fund. Therefore, there will be no impact under this threshold.

c) **Less than Significant Impact.** Development of the proposed project could potentially result in a significant impact if it results in a permanent substantial degradation of the existing visual character or quality of the site and its surroundings. Degradation of visual character or quality is generally defined by substantial changes to the existing site appearance through construction of structures such that they are poorly designed or conflict with the site's existing surroundings.

Construction of the proposed project will result in short-term changes to the existing visual character and quality of the area. Construction activities will require the use of equipment and storage of materials within the project site. The project site is currently fenced with a green screen and will continue to be fenced through construction. Short-term changes to the project site due to construction are not significant because they are not permanent. Construction-related impacts to the visual character of the area will be less than significant and will not be addressed further in an EIR.

Operation of the proposed development on the previously developed site will alter the existing visual character of the site. Once constructed, the proposed project will represent an urban feature within an existing urban area. The project site is currently vacant and will be developed with a mixed-use development consisting of up to two 18-story residential buildings which will be above approximately five to eight levels of parking, a two-story retail development with two floors of retail space, 50,000 square feet of restaurant use on the roof top terrace, one level of above-grade parking and one level of below-grade parking, and an 11-story hotel. Consequently, the finished structures will result in a permanent structural change to the visual character of the site and area. Potential impacts related to the proposed change in visual character will be evaluated further in an EIR.

d) **Potentially Significant Impact.** Excessive or inappropriately directed lighting can adversely impact night-time views by reducing the ability to see the night sky and stars. Glare can be caused from unshielded or misdirected lighting sources. Reflective surfaces (i.e., polished metal) can also cause glare. Impacts associated with glare range from simple nuisance to potentially dangerous situations (i.e., if glare is directed into the eyes of motorists).

There are lighting sources adjacent to this site, including free-standing street lights, light fixtures on buildings, pole-mounted lights, and traffic signals. The proposed project includes exterior parking and security lighting along the southern project boundary, building interior lighting, and retail signage. The proposed project also includes new structures including windows that could cause glare depending on the types of materials used in building construction. Due to the new light and potential glare sources associated with the proposed project, potentially significant

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<sup>2</sup> City of El Monte. General Plan. June 2011.

impacts could occur to surrounding uses, motorists on I-10 and surrounding roadways; therefore, light and glare impacts are potentially significant and will be evaluated further in an EIR.

## 4.2 – Agriculture and Forest Resources

In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state’s inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104 (g))?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Result in loss of forest land or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

a) **No Impact.** The proposed project will be located in a fully developed, urbanized area that does not contain agriculture or forest uses. The map of Important Farmland in California (2010) prepared by the Department of Conservation does not identify the project site as being Prime

Farmland, Unique Farmland, or Farmland of Statewide Importance.<sup>3</sup> The City of El Monte is located in an area that is not mapped, indicating that there is no land considered as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance within the City. In addition, the El Monte General Plan does not identify any areas for agriculture use. Therefore, there will be no conversion of Prime Farmland, Unique Farmland, and Farmland of Statewide Importance to a non-agricultural use as a result of the proposed project. No impact will occur.

b) **No Impact.** No Williamson Act contracts are active for the project site.<sup>4</sup> In addition, the project site is zoned as an office-professional zone, which does not permit agricultural uses. Therefore, there will be no conflict with existing zoning for agricultural use or a Williamson Act contract. No impact will occur.

c) **No Impact.** Public Resources Code Section 12220(g) identifies forest land as *land that can support 10-percent native tree cover of any species, including hardwoods, under natural conditions, and that allows for management of one or more forest resources, including timber, aesthetics, fish and wildlife, biodiversity, water quality, recreation, and other public benefits.* The project site and surrounding properties are not currently being managed or used for forest land as identified in Public Resources Code Section 12220(g). The project site has already been graded and developed with previous uses and no substantial vegetation occurs on site with the exception of limited ornamental landscaping. Therefore, development of the proposed project will have no impact to any timberland zoning.

d) **No Impact.** The project site is already graded land with existing development and limited ornamental landscaping; thus, there will be no loss of forest land or conversion of forest land to non-forest use as a result of the proposed project. No impact will occur.

e) **No Impact.** The project site is a previously developed site within an urban environment. The proposed project is surrounded by residential and commercial uses. None of the surrounding sites contain existing agricultural or forest uses. Development of the proposed project will not change the existing environment in a manner that will result in the conversion of farmland to non-agricultural use or forest land to a non-forest use. No impact will occur.

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<sup>3</sup> California Department of Conservation. Farmland Mapping and Monitoring Program. <ftp://ftp.consrv.ca.gov/pub/dlrp/FMMP/pdf/2010/los10.pdf> [June 2014]

<sup>4</sup> California Department of Conservation. Williamson Act Program. [ftp://ftp.consrv.ca.gov/pub/dlrp/wa/LA\\_12\\_13\\_WA.pdf](ftp://ftp.consrv.ca.gov/pub/dlrp/wa/LA_12_13_WA.pdf) [June 2014]

### 4.3 – Air Quality

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

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Conflict with or obstruct implementation of the applicable air quality plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Expose sensitive receptors to substantial pollutant concentrations?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Create objectionable odors affecting a substantial number of people?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

a) **Potentially Significant Impact.** A significant impact could occur if the proposed project conflicts with or obstructs implementation of the South Coast Air Basin 2012 Air Quality Management Plan. Conflicts and obstructions that hinder implementation of the AQMP can delay efforts to meet attainment deadlines for criteria pollutants and maintaining existing compliance with applicable air quality standards. Pursuant to the methodology provided in Chapter 12 of the 1993 SCAQMD CEQA Air Quality Handbook, consistency with the South Coast Air Basin 2012 Air Quality Management Plan (AQMP) is affirmed when a project (1) does not increase the frequency or severity of an air quality standards violation or cause a new violation and (2) is consistent with the growth assumptions in the AQMP.<sup>5</sup> In addition, the Regional Comprehensive Plan and Guide (RCPG) policies serves as a regional framework for decision making for the growth and change and contains population, housing, and job forecasts which are adopted by SCAG. The proposed

<sup>5</sup> South Coast Air Quality Management District. CEQA Air Quality Handbook. 1993

project is a Specific Plan which will include development of 600 condominium units, 500,000 square feet of retail, 50,000 square feet of restaurant use, and a 220-room hotel. Because the proposed project requires a General Plan Amendment and zone change to implement the Specific Plan, the potential exists that the proposed project could be inconsistent with the growth assumptions in the AQMP and RCPG and related impacts will be analyzed further in an EIR.

b) **Potentially Significant Impact.** A project may have a significant impact if project-related emissions exceed federal, state, or regional standards or thresholds, or if project-related emissions substantially contribute to existing or project air quality violations. The proposed project is located within the South Coast Air Basin, where efforts to attain state and federal air quality standards are governed by the South Coast Air Quality Management District (SCAQMD).

Both the state of California (state) and the federal government have established health-based ambient air quality standards (AAQS) for seven air pollutants (known as 'criteria pollutants'). These pollutants include ozone (O<sub>3</sub>), carbon monoxide (CO), nitrogen dioxide (NO<sub>2</sub>), sulfur dioxide (SO<sub>2</sub>), inhalable particulate matter with a diameter of 10 microns or less (PM<sub>10</sub>), fine particulate matter with a diameter of 2.5 microns or less (PM<sub>2.5</sub>), and lead (Pb). The state has also established AAQS for additional pollutants. The AAQS are designed to protect the health and welfare of the populace within a reasonable margin of safety. Where the state and federal standards differ, California AAQS are more stringent than the national AAQS.

The proposed project may result in potentially significant short-term construction-related impacts due to use of construction equipment and worker, vendor, and hauling trips. Furthermore, operation of the proposed project could result in long-term air quality impacts due to emissions from project operations, such as employee and resident vehicles trips. Therefore, impacts related to criteria pollutant emissions from construction and operation are potentially significant and will be analyzed further in an EIR.

c) **Potentially Significant Impact.** Because the proposed project may result in potentially significant impacts related to criteria pollutants, as discussed in Section 4.3.b above, the proposed project could also contribute substantially to cumulative short- and long-term air quality impacts. Therefore, cumulative impacts related to criteria pollutant emissions are potentially significant and will be analyzed further in an EIR.

d) **Potentially Significant Impact.** Sensitive receptors are those segments of the population that are most susceptible to poor air quality such as children, the elderly, the sick, and athletes who perform outdoors. Land uses associated with sensitive receptors include residences, schools, playgrounds, childcare centers, outdoor athletic facilities, long-term health care facilities, rehabilitation centers, convalescent centers, and retirement homes. The nearest land uses that are considered *sensitive receptors* are the single-family residential dwelling units located to the north of the I-10. In addition, four schools are located within 0.25 miles from the project site to the west, north, and east. The proposed mixed-use development will not generate toxic pollutant emissions because the proposed use is characterized as a typical commercial-residential use that does not produce such emissions. The proposed mixed-use development, therefore, will have no impact on sensitive receptors related to toxic pollutant emissions.

The proposed mixed-use development is considered a sensitive receptor. According to the *Air Quality and Land Use Handbook* prepared by the California Air Resources board (ARB), sensitive

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receptors should not be sited within 500 feet of heavily traveled urban roadways.<sup>6</sup> Considering the importance of I-10 as a local and regional arterial, traffic volume may exceed 100,000 average daily trips and thus may expose the project to excessive diesel particulate matter (DPM) emissions. Potentially significant impacts related to diesel particulate emissions will be evaluated further in an EIR.

A carbon monoxide (CO) hotspot is an area of localized CO pollution that is caused by severe vehicle congestion on major roadways, typically near intersections. CO hotspots have the potential for violation of state and federal CO standards at study area intersections, even if the broader Basin is in attainment for federal and state levels. The potential for violation of state and federal CO standards at study area intersections and exposure to sensitive receptors at those intersections is addressed using the methodology outlined in the California Department of Transportation *Project-Level Carbon Monoxide Protocol* (CO Protocol). Local impacts from the proposed project are not exempt from emissions analysis as defined by the CO Protocol (Sections 3.1.1, 3.1.2, and 3.1.9) and thus may contribute substantially to a localized CO hotspot. Potentially significant impacts related to CO hotspot formations will be evaluated further in an EIR.

e) **Less than Significant Impact.** According to the CEQA Air Quality Handbook, land uses associated with odor complaints include agricultural operations, wastewater treatment plants, landfills, and certain industrial operations (such as manufacturing uses that produce chemicals, paper, etc.). Odors are typically associated with industrial projects involving the use of chemicals, solvents, petroleum products, and other strong-smelling elements used in manufacturing processes, as well as sewage treatment facilities and landfills. The proposed mixed-use development does not include any of the above noted uses or process.

Construction of the project will utilize diesel-powered equipment that will produce nominal exhaust odors that may be perceptible to surrounding residents, depending on daily meteorological conditions including temperature, wind direction, and wind speed. Air Resources Board (ARB) requirements for maintenance and upgrading of off-road equipment will minimize emissions of noxious diesel odors by reducing particulates and fuel by-products in exhaust emissions.<sup>7</sup> Considering existing regulations that will minimize exhaust emissions and the temporary nature of construction activities, impacts related to construction odors will be less than significant.

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<sup>6</sup> California Air Resources Board. Air Quality and Land Use Handbook: A Community Health Perspective. April 2005.

<sup>7</sup> California Air Resources Board. In-Use Off-Road Diesel Vehicle Regulation. <http://www.arb.ca.gov/msprog/ordiesel/ordiesel.htm> [June 10, 2014]

### 4.4 – Biological Resources

Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game or US Fish and Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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a) **Less than Significant Impact.** The project site is currently vacant and was previously developed with industrial uses. The project site is not identified as critical habitat for threatened and endangered species.<sup>8</sup> The California Natural Diversity Database (CNDDDB) shows the occurrence of seven sensitive species in the El Monte Quadrangle that includes parts of Temple city, San Gabriel, Rosemead, El Monte, South El Monte, and Montebello.<sup>9</sup> Minimal landscaping currently exists on site; however, the ornamental vegetation is not native habitat for any species identified as candidate, sensitive, or special status species. Typical native habitat in the area would include scrub habitat that supports the coastal California gnatcatcher and riparian habitat supporting the southwestern willow flycatcher, neither of which occurs on the project site. On-site vegetation is currently disturbed through on- and off-site activities including landscape maintenance, traffic, demolition activities, and the presence of humans and domestic animals. Considering the highly developed and urbanized character of the project site and surrounding area and the presence of on- and off-site disturbances, designated species under federal or state law and other wildlife will not be disturbed. The proposed project will, therefore, not have a significant effect on any species identified as a candidate, sensitive, or special-status species in local or regional plans or by the California Department of Fish and Wildlife (CDFW) or U.S. Fish and Wildlife Service (USFWS).

While the project will not result in any substantial impacts to sensitive species or their habitat and the existing vegetation on site is of low quality, the project site may support nesting of some native bird species. Generally, all birds (as listed) are protected under the Federal Migratory Bird Treaty of 1918 and/or California Fish and Game Code Sections 3503, 3503.5, and 3513. Based on the construction schedule, site preparation will occur in January of 2015. If removal of landscaping occurs during the avian breeding season, CDFW recommends that nest surveys be conducted and active nests avoided and provided with a minimum buffer as determined by a biological monitor (CDFW generally recommends a minimum 300 foot nest avoidance buffer or 500 feet for all active raptor nests) in order to be compliant with federal and/or state law.

In addition to federal and state regulations, the project is subject to CEQA filing fees upon certification of an EIR. The filing fee helps defray the costs of managing and protecting California’s fish and wildlife resources, thus, payment of fees would help offset any incremental effects on wildlife, including nesting birds and other resources. Based on the lack of habitat on the property, the highly urbanized and developed character of the area and activities that are incompatible with wildlife, less than significant impacts to candidate,

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<sup>8</sup> U.S. Fish and Wildlife Service. FWS Critical Habitat for Threatened & Endangered Species. <http://ecos.fws.gov/crithab/flex/crithabMapper.jsp>? [June 10, 2014]

<sup>9</sup> California Department of Fish and Wildlife. California Natural Diversity Database. USGS Quadrangle El Monte 3411811. [http://imaps.dfg.ca.gov/viewers/cnddb\\_quickviewer/app.asp](http://imaps.dfg.ca.gov/viewers/cnddb_quickviewer/app.asp) [June 10, 2014]

sensitive, or special status species or their habitat will occur with implementation of existing regulations.

b) **No Impact.** The project site is located on previously developed land. The site has been graded, previously developed, and does not contain any landscaping. There is no riparian habitat on site. As such, no impact to riparian habitat or other sensitive natural habitat will occur.

c) **No Impact.** According to the federal National Wetlands Inventory, the project site does not contain any wetlands and the proposed project will not disturb any offsite wetlands (see Section 4.9 for discussion of project drainage features).<sup>10</sup> There is no vegetation or on-site water features indicative of potential wetlands. No impact will occur.

d) **No Impact.** The project site was previously developed with an industrial use and is surrounded to the north, south, east, and west by development, preventing the use of the project site and surrounding area as a wildlife corridor. The project site contains ornamental vegetation, including mature trees, in the context of a completely urbanized setting surrounded by commercial use. There are no substantial vegetated areas or waterbodies located on site. The project site does not provide for the movement of any native resident or migratory fish and wildlife. No impact will occur.

e) **Less than Significant Impact.** The project site contains non-native, ornamental plants. El Monte prides itself on the community forest which is comprised of nearly 6,000 street, park and civic trees owned by the City or within the public right of way.<sup>11</sup> The community forest is considered to add significantly to the quality of life and public health of the City's residents. In order to preserve the community forest and ensure the protection of certain categories of trees, Chapter 14.03 (Tree Protection and Preservation) of the El Monte Municipal Code establishes policies, regulations, and standards. Protected trees include any public tree, Heritage Tree, or Native Trees. Protected trees will not be removed unless authorized by a permit, pursuant to Section 14.03.030 (Prohibited activities) of the Municipal code. A tree survey will be conducted to determine if any of the trees existing on site are protected. All trees (not protected) that are removed shall be replaced with a tree ratio of 2:1 from the City's recommended tree palette or an in lieu fee shall be paid to the City's tree mitigation and planting fund. Impact will be less than significant.

f) **No Impact.** The proposed project site is not within the planning area of any Habitat Conservation Plan or a Natural Community Conservation Plan area,<sup>12</sup> or other approved local, regional or state habitat conservation plan. No impact will occur.

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<sup>10</sup> United States Fish and Wildlife Service. National Wetlands Inventory. <http://107.20.228.18/Wetlands/WetlandsMapper.html#> [June 2014]

<sup>11</sup> City of El Monte. *El Monte Urban and Community Forestry Management Plan*. 2010

<sup>12</sup> California Department of Fish and Game. Natural Community Conservation Planning. <http://www.dfg.ca.gov/habcon/nccp/> [June 2014]

### 4.5 – Cultural Resources

Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Cause a substantial adverse change in the significance of a historical resource as defined in '15064.5?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to '15064.5?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Disturb any human remains, including those interred outside of formal cemeteries?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

a) **No Impact.** This property does not satisfy any of the criteria for a historic resource defined in Section 15064.5 of the state CEQA Guidelines. No known historically or culturally significant resources, structures, buildings, or objects are located on the project site. According to the General Plan EIR, there are no properties within the City of El Monte that are of local, state, or national significance.<sup>13</sup> As such, the proposed project will not cause an adverse change in the significance of a historical resource, and impacts to historic resources are not anticipated. No impact will occur.

b) **Potentially Significant Impact.** The project site is located in an urbanized area that has been previously disturbed and heavily affected by past activities, specifically construction of previous on-site structures. Given that the project site has been substantially disturbed by previous construction, any cultural resources that may have existed at one time likely have been unearthed, collected, and/or destroyed and lost their stratigraphic and geologic context and thus will no longer be considered an archaeological resource. The El Monte General Plan EIR indicates that no archaeological sites are found within the City; however, the General Plan EIR notes that the lack of archaeological sites does not preclude the potential discovery of such resources during construction of specific projects. Extensive subsurface earth movement will occur as a result of the project to accommodate construction of subsurface parking and, therefore, could impact yet undiscovered archaeological resources. Impacts to buried archaeological resources will be further evaluated in an EIR.

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<sup>13</sup> The Planning Center. *Final City of El Monte General Plan and Zoning Code Update Environmental Impact Report SCH#2008071012*. May 2011

c) **Potentially Significant Impact.** The project site is located in an urbanized area that has been previously disturbed and heavily affected by past activities, specifically construction of existing on-site structures. The City of El Monte was originally developed on land that was settled by the Tongva Indian tribe prior to Spanish settlement in the late 18<sup>th</sup> century. However, there are no material remnants of this living culture. A majority of the City is dominated by alluvium deposits that overlie relatively impermeable rock.<sup>14</sup> The El Monte General Plan EIR indicates that these types of alluvial materials have low probability of containing paleontological features.<sup>15</sup> The General Plan EIR further found that due to the highly developed urban character of the City that paleontological resources are unlikely to occur within the City. However, extensive subsurface earth movement will occur as a result of the project to accommodate construction of subsurface parking and, therefore, could impact yet undiscovered paleontological resources. Impacts to buried paleontological resources will be further evaluated in an EIR.

d) **Less than Significant Impact.** Because the project site has been previously developed, no human remains or cemeteries are anticipated to be disturbed by the proposed project. Any buried human remains would have been uncovered, collected, and/or destroyed at the time of initial development of the site. In the unlikely event that human remains are uncovered the contractor shall be required to halt work in the immediate area of the find and to notify the County Coroner, in accordance with Section 7050.5 of the California Health and Safety Code, who must then determine whether the remains are of forensic interest. If the Coroner determines that the remains are or appear to be of a Native American, he/she shall contact the Native American Heritage Commission for further investigations and proper recovery of such remains, if necessary in compliance with the requirements of Public Resources Code Section 5097.98. Impacts will be less than significant with implementation of these regulations.

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<sup>14</sup> City of El Monte. General Plan: Vision El Monte. June 2011.

<sup>15</sup> The Planning Center. *Final City of El Monte General Plan and Zoning Code Update Environmental Impact Report SCH#2008071012*. May 2011

### 4.6 – Geology and Soils

Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ii) Strong seismic ground shaking?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
iii) Seismic-related ground failure, including liquefaction?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
iv) Landslides?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in substantial soil erosion or the loss of topsoil?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1997), creating substantial risks to life or property?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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a.i) **Less than Significant Impact.** Although the project site is located in seismically active Southern California, the site is not located within an Alquist-Priolo Earthquake Fault Zone.<sup>16</sup> No active or inactive faults have been identified at the ground surface within City limits.<sup>17</sup> Impacts will be less than significant.

a.ii) **Less than Significant Impact.** The proposed project will be subject to ground shaking impacts should a major earthquake in the area occur in the future. Potential impacts include injury or loss of life and property damage.

The project site is subject to strong seismic ground shaking, as are virtually all properties in Southern California. The proposed development is subject to the seismic design criteria of the California Building Code (CBC). The 2013 California Building Code (CBC; Title 14, California Code of Regulations, Part 2) contains seismic safety provisions with the aim of preventing building collapse during a design earthquake, so that occupants will be able to evacuate after the earthquake. A design earthquake is one with a two percent chance of exceedance in 50 years, or an average return period of 2,475 years. Adherence to these requirements will reduce the potential of the building from collapsing during an earthquake, thereby minimizing injury and loss of life. Although structures may be damaged during earthquakes, adherence to seismic design requirements will minimize damage to property within the structure because the structure is designed not to collapse. The CBC is intended to provide minimum requirements to prevent major structural failure and loss of life. A preliminary geotechnical memorandum was prepared for the project by Group Delta Consultants. The nearest active faults include the Lower Elysian Park and Puente Hills blind thrust faults which are located roughly 4.2 and 6.3 kilometers (km) below the site. The Whittier section of the Elsinore fault zone is located about 7.0 km to the southwest, and the Raymond fault is located about 7.4 km north of the property. Group Delta Consultants recommend that the proposed structures be designed in general accordance with the seismic provisions of the CBC for Seismic Zone 4.<sup>18</sup> Adherence to existing regulations will reduce the risk of loss, injury, and death; impacts due to strong ground shaking will be less than significant.

a.iii) **Potentially Significant Impact.** Liquefaction is a phenomenon that occurs when soil undergoes transformation from a solid state to a liquefied condition due to the effects of increased pore-water pressure. This typically occurs where susceptible soils (particularly the medium sand to silt range) are located over a high groundwater table. Affected soils lose all strength during liquefaction and foundation failure can occur.

<sup>16</sup> California State Department of Conservation. Alquist-Priolo Earthquake Fault Zone Maps. [http://www.quake.ca.gov/gmaps/ap/ap\\_maps.htm](http://www.quake.ca.gov/gmaps/ap/ap_maps.htm) [June 2014]

<sup>17</sup> The Planning Center. *Final City of El Monte General Plan and Zoning Code Update Environmental Impact Report SCH#2008071012*. May 2011

<sup>18</sup> Group Delta Consultants. *Technical Memorandum: Preliminary Geotechnical Information*. May 10, 2013.

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According to the Seismic Hazard Evaluation of the El Monte 7.5 minute quadrangle, the site is located in a Zone of Required Investigation for liquefaction.<sup>19</sup> The entire City is underlain by soils susceptible to liquefaction. The General Plan, in addition to the CBC, requires that a soil investigation take place in areas of potential seismic or geologic hazards. A preliminary geotechnical memorandum was prepared for the project by Group Delta Consultants and confirms the potential for liquefaction with a recommendation for further investigation in a geotechnical report.<sup>20</sup> Impacts related to liquefaction are potentially significant and will be analyzed further in an EIR.

a.iv) **No Impact.** According to the Seismic Hazard Evaluation of the El Monte 7.5 minute quadrangle, the project site is located in an urbanized area that is relatively flat, is not surrounded by any hillsides, and has no potential for landslides. No impacts related to the proposed project will occur.

b) **Less than Significant Impact.** Topsoil is used to cover surface areas for the establishment and maintenance of vegetation due to its high concentrations of organic matter and microorganisms. Little, if any, native topsoil is likely to occur on site because the topsoil would have been removed or compacted as a result of engineering for the previous on-site development. The proposed project has the potential to expose surficial soils to wind and water erosion during construction activities. Wind erosion will be minimized through soil stabilization measures required by South Coast Air Quality Management District (SCAQMD) Rule 403(d)(2) (Fugitive Dust). SCAQMD Rule 403, Table 1 provides measures for construction activities to reduce fugitive dust. This includes measures for the application of water or stabilizing agents to prevent generation of dust plumes, pre-watering materials prior to use, use of tarps to enclose haul trucks, stabilizing sloping surfaces using soil binders until vegetation or ground cover effectively stabilize slopes, hydroseed prior to rain, washing mud and soils from equipment at the conclusion of trenching activities (see SCAQMD Rule 403 Table 1 for additional details). Water erosion will be prevented through the City's standard erosion control practices required pursuant to the California Building Code and the National Pollution Discharge Elimination System (NPDES), such as silt fencing or sandbags. Following project construction, the site will be covered completely by paving, structures, and landscaping. Impacts related to soil erosion will be less than significant with implementation of existing regulations.

c) **Potentially Significant Impact.** Impacts related to liquefaction and landslides are discussed above in Sections 4.6.a and 4.6.b. As stated in section 4.6.a, the site is located in a Zone of Required Investigation for liquefaction.<sup>21</sup> The entire City is underlain by soils susceptible to liquefaction. Impacts related to liquefaction are potentially significant and will be analyzed further in an EIR.

Lateral spreading is the downslope movement of surface sediment due to liquefaction in a subsurface layer. The downslope movement is due to gravity and earthquake shaking combined. Such movement can occur on slope gradients of as little as one degree. Lateral spreading typically damages pipelines, utilities, bridges, and structures. Lateral spreading of the ground surface during a seismic activity usually occurs along the weak shear zones within a liquefiable

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<sup>19</sup> California State Department of Conservation. California Geological Survey, Seismic Hazard Zones. El Monte Quadrangle, March 25, 1999.

<sup>20</sup> Group Delta Consultants. *Technical Memorandum: Preliminary Geotechnical Information*. May 10, 2013.

<sup>21</sup> California State Department of Conservation. California Geological Survey, Seismic Hazard Zones. El Monte Quadrangle, March 25, 1999.

soil layer and has been observed to generally take place toward a free face (i.e. retaining wall, slope, or channel) and to lesser extent on ground surfaces with a very gentle slope. The preliminary geotechnical memorandum prepared for the project site identified potential issues related to dynamic settlement, soil collapse, bearing capacity, and lateral resistance and recommended these issues be addressed in a geotechnical report. Impacts related to unstable soils are potentially significant and will be evaluated further in an EIR.

d) **Potentially Significant Impact.** The CBC requires special design considerations for foundations of structures built on soils with expansion indices greater than 20. The preliminary geotechnical memorandum prepared for the project site indicates that soils in the project vicinity are alluvial with deposits of silty and clayey sand and sandy silt and lean clay.<sup>22</sup> The memorandum indicates that silts and clays are moderately to highly expansive. The potential for substantial expansive soils to occur on the project site and the resulting impacts will be further evaluated in an EIR.

e) **No Impact.** The project proposes to connect to the existing municipal sewer system. The project will connect to this system and will not require use of septic tanks. No impact will occur.

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<sup>22</sup> Group Delta Consultants. *Technical Memorandum: Preliminary Geotechnical Information*. May 10, 2013.

## 4.7 – Greenhouse Gas Emissions

Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

a) **Potentially Significant Impact.** Climate change is the distinct change in measures of climate for a long period of time.<sup>23</sup> Climate change is the result of numerous, cumulative sources of greenhouse gas emissions all over the world. Natural changes in climate can be caused by indirect processes such as changes in the Earth’s orbit around the Sun or direct changes within the climate system itself (i.e. changes in ocean circulation). Human activities can affect the atmosphere through emissions of greenhouse gases (GHG) and changes to the planet’s surface. Human activities that produce GHGs are the burning of fossil fuels (coal, oil and natural gas for heating and electricity, gasoline and diesel for transportation); methane from landfill wastes and raising livestock, deforestation activities; and some agricultural practices.

Greenhouse gases differ from other emissions in that they contribute to the “greenhouse effect.” The greenhouse effect is a natural occurrence that helps regulate the temperature of the planet. The majority of radiation from the Sun hits the Earth’s surface and warms it. The surface in turn radiates heat back towards the atmosphere, known as infrared radiation. Gases and clouds in the atmosphere trap and prevent some of this heat from escaping back into space and re-radiate it in all directions. This process is essential to supporting life on Earth because it warms the planet by approximately 60° Fahrenheit. Emissions from human activities since the beginning of the industrial revolution (approximately 250 years ago) are adding to the natural greenhouse effect by increasing the gases in the atmosphere that trap heat, thereby contributing to an average increase in the Earth’s temperature. Greenhouse gases occur naturally and from human activities. Greenhouse gases produced by human activities include carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF<sub>6</sub>). Since 1750, it is estimated that the concentrations of carbon dioxide, methane, and nitrous oxide in the atmosphere have increased over 36 percent, 148 percent, and 18 percent, respectively, primarily due to human activity. Emissions of greenhouse gases affect the atmosphere directly by changing its chemical composition while changes to the land surface

<sup>23</sup> United States Environmental Protection Agency. Frequently Asked Questions About Global Warming and Climate Change. Back to Basics. April 2009.

indirectly affect the atmosphere by changing the way the Earth absorbs gases from the atmosphere.

Operational emissions associated with the proposed project will include greenhouse gas emissions from mobile sources (transportation), energy, water use and treatment, and waste disposal. Greenhouse gas emissions from electricity use are indirect emissions from the energy (purchased energy) that is produced offsite. Construction activities are short term and cease to emit greenhouse gases upon completion. Greenhouse gas emissions from the operation of the proposed project may have a potentially significant environmental impact. Construction activities are short term and cease to emit greenhouse gases upon completion, unlike operational emissions that are continuous year after year until operation of the use ceases. An air quality and climate change assessment will be prepared for the proposed project to determine if changes in greenhouse gas emissions resulting from construction and operation of the proposed project will contribute substantially to climate change impacts. Potentially significant impacts related to greenhouse gas emissions will be evaluated further in an EIR.

b) **Potentially Significant Impact.** The City has adopted the 2013 edition of the California Building Code (Title 24), including the California Green Building Standards Code (pursuant to El Monte Municipal Code Chapter 15.04). The project will be subject to the California Green Building Standards Code, which requires new buildings to reduce water consumption, employ building commissioning to increase building system efficiencies for large buildings, divert construction waste from landfills, and install low pollutant-emitting finish materials. The project does not include any feature (i.e. substantially alter energy demands) that will interfere with implementation of these state and City codes and plans. However, because the proposed project consists of a General Plan Amendment and zone change which allows for additional population and employment growth, potentially significant impacts could occur due to inconsistencies with State and/or regional greenhouse gas reduction plans. Potentially significant impacts related to greenhouse gas emissions will be evaluated further in an EIR.

### 4.8 – Hazards and Hazardous Materials

Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

a) **Potentially Significant Impact.** The proposed project could result in a significant hazard to the public if the project results in the routine transport, use, or disposal of hazardous materials and wastes or places housing near a facility which routinely transports, uses, or disposes of hazardous materials and wastes. The proposed project is surrounded by commercial uses to the west, south, and east with residential uses located to the north of I-10. The routine use, transport, or disposal of hazardous materials is primarily associated with industrial uses which require such materials for manufacturing operations or produce hazardous wastes as by-products of production applications. The proposed project does not propose or facilitate any activity involving significant use, routine transport, or disposal of hazardous substances as part of the residential and retail use. Furthermore, according to the EPA, the proposed project is not located near any listed facilities that utilize radioactive materials, or discharge to surface water bodies.<sup>24</sup> In addition to the previous use on the project site (Sargent Fletcher Company), one facility has reported toxic releases: Thrifty Payless Incorporated Ice Cream Division at 9200 Telstar Avenue. In addition to the previous use on the project site, the following 18 facilities have reported hazardous waste activities:<sup>25</sup>

- A B Dick Company, 9035 Telstar Avenue
- A D Pathlabs Los Angeles, 9440 Telstar Avenue
- American Xtal Technology Inc., 9650 Telstar Avenue
- Biostar Microtech USA Corp, 9460 Telstar Avenue Unit 5
- Biostar Microtech USA Corp, 9682 Telstar Avenue 110
- Caltrol Inc., 9639 Telstar Avenue
- Demeter Technologies Inc, 3477 Fletcher Avenue Suite A
- Demeter Technologies Inc, 9650 Telstar Avenue Suite A
- Electronic Solutions A Zero C, 3445 Fletcher Avenue
- Evirogenics Sysys Co, 9255 Telstar Avenue
- Gestetner Corp, 9500 Telstar Avenue
- Lyte Optronics, 3477 Flecture Drive
- Marshall Industries, 9661 Telestar Avenue
- Micro Gage Inc, 9537 Telstar Avenue
- Pac Fab Inc, 9626 Telstar
- Robert and Deborah Garcia, 9530 Olney Street
- Signet Scientific, 3401 Aerojet Avenue

<sup>24</sup> Environmental Protection Agency. Envirofacts. <http://www.epa.gov/enviro/index.html> [June 2014]

<sup>25</sup> Environmental Protection Agency. Envirofacts. <http://www.epa.gov/enviro/index.html> [June 2014]

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- South Coast Air Quality Management District, 9150 Flair Drive

During construction, there will be a minor level of transport, use, and disposal of hazardous materials and wastes that are typical of construction projects. This will include fuels and lubricants for construction machinery, coating materials, etc. Potential impacts related to the transport, use, and disposal of hazardous materials and wastes during construction will be analyzed in an EIR.

With regard to project operation, widely used hazardous materials common at residential and commercial uses include paints and other solvents, cleaners, and pesticides. The remnants of these and other products are disposed of as household hazardous waste (HHW) that includes used dead batteries, electronic wastes, and other wastes that are prohibited or discouraged from being disposed of at local landfills. Regular operation and cleaning of the residential, retail, and hotel units will not result in significant impacts involving use, storage, transport or disposal of hazardous wastes and substances. Use of common household hazardous materials and their disposal does not present a substantial health risk to the community. Impacts associated with the routine transport, use of hazardous materials or wastes will be less than significant.

b) **Potentially Significant Impact.** There is one open case of a leaking underground storage tank (LUST) approximately 0.5 miles east of the project site at AZ Arco at 3546 Baldwin Avenue.<sup>26</sup> According to the LTCP Checklist as of May 28, 2014, the release from the UST has been stopped and affected soils have been removed. No groundwater has been affected by this LUST.<sup>27</sup> There will be no impact related to the release of hazardous materials into the environment as a result of the proposed project.

Construction of the proposed project will require the use and transport of hazardous materials such as asphalt, paints, and other solvents. Construction activities could also produce hazardous wastes associated with the use of such products. Construction of the proposed mixed-use development requires ordinary construction activities and use of hazardous materials to complete. Potential impacts related to the accidental release of hazardous materials and wastes during construction will be analyzed in an EIR.

No impact related to asbestos containing materials (ACM) and lead-based paints will occur as the previously existing structures have been demolished and the project site does not require further demolition.

c) **Potentially Significant Impact.** There are four schools located within a quarter-mile of the project site. The Agape Montessori School is located approximately 0.04 miles to the east of the project site. The Telstar Montessori Childcare Center is located approximately 0.12 miles to the southwest of the project site. The K-Step Montessori Childcare is located approximately 0.22 miles to the west of the project site. Savannah School is located approximately 0.23 miles to the north of the project site. Operation of the proposed project will not generate any hazardous emissions and storage, handling, production or disposal of acutely hazardous materials is not required or proposed for any aspect of this project. However, remediation of contaminated soils

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<sup>26</sup> State Water Resources Control Board. GeoTracker. <https://geotracker.waterboards.ca.gov/> [June 2014]

<sup>27</sup> State Water Resources Control Board. GeoTracker. AZ Arco LTCP Checklist. [https://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=T0603753421&cmd=ltcpreport&ltcp\\_id=113812](https://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603753421&cmd=ltcpreport&ltcp_id=113812) [June 2014]

on the project site will result in the handling and transport of contaminated materials. Impacts to existing schools are potentially significant and will be analyzed further in an EIR.

d) **Potentially Significant Impact.** The proposed project is not located on a site listed on the state *Cortese List*, a compilation of various sites throughout the state that have been compromised due to soil or groundwater contamination from past uses.<sup>28</sup>

Based upon review of the *Cortese List*, the project site is not:

- listed as a leaking underground storage tank (LUST) site by the State Water Resources Control Board (SWRCB),<sup>29</sup>
- listed as a hazardous solid waste disposal site by the SWRCB,<sup>30</sup>
- currently subject to a Cease and Desist Order (CDO) or a Cleanup and Abatement Order (CAO) as issued by the SWRCB,<sup>31</sup> or
- developed with a hazardous waste facility subject to corrective action by the DTSC.<sup>32</sup>

The project site is located within the San Gabriel Valley Superfund Site Area 1. Potential contaminants including PCE, TCE, 1,4-dioxane, and perchlorate are above state and federal water standards for groundwater. Current remediation includes extraction and treatment of contaminated groundwater. Affected wells in the vicinity include City of Monterey Park Wells 5, 12, and 15, San Gabriel Valley Plant 8 wells B, C, and D, and Golden State Water Company SG1 and SG2 wells.<sup>33</sup>

Site reconnaissance was performed by Odic Environmental. The site was previously occupied by Sargent Fletcher Company beginning in 1954 and is currently vacant. Sargent Fletcher manufactured and assembled pneumatic ejector racks and aircraft external fuel tanks on site. Hazardous materials were previously stored on site including solvents, acetone, cleaners, isopropyl alcohol, various acids, petroleum based products, and other materials. Potential soil, soil vapor, and groundwater contamination will be analyzed in an EIR.

e-f) **Less than Significant Impact.** The proposed project site is located approximately 1.5 miles southwest of the El Monte Airport runway. The airport operates on a 24-hour basis, seven days a week. The flight paths are from north to south and during take-off aircrafts follow the Rio Hondo Channel until they gain altitude. The Airport Influence Area encompasses airport property and two Runway Protection Zones, one at each end of the runway (one to the north and one to

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<sup>28</sup> California Environmental Protection Agency. Cortese List Data Resources. <http://www.calepa.ca.gov/sitecleanup/corteselist/> [June 2014]

<sup>29</sup> California State Water Resources Control Board. GeoTracker. <https://geotracker.waterboards.ca.gov/> [June 2014]

<sup>30</sup> California State Water Resources Control Board. Sites Identified with Waste Constituents Above Hazardous Waste Levels Outside the Waste Management Unit. <http://www.calepa.ca.gov/sitecleanup/corteselist/CurrentList.pdf> [June 2014]

<sup>31</sup> California State Water Resources Control Board. List of Active CDO and CAO. <http://www.calepa.ca.gov/sitecleanup/corteselist/CDOCAOList.xlsx> [June 2014]

<sup>32</sup> California Department of Toxic Substances Control. Cortese List: Section 65962.5(a). <http://www.calepa.ca.gov/sitecleanup/corteselist/SectionA.htm#Facilities> [June 2014]

<sup>33</sup> California Department of Toxic Substances Control. EnviroStor. [http://www.envirostor.dtsc.ca.gov/public/profile\\_report.asp?global\\_id=60001339](http://www.envirostor.dtsc.ca.gov/public/profile_report.asp?global_id=60001339) [June 2014]

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the south).<sup>34</sup> <sup>35</sup> The proposed project site is not located within the Airport Influence Area. Impacts will be less than significant.

g) **Potentially Significant Impact.** The proposed project includes 600 apartment units, a 220-room hotel, and 500,000 square feet of retail, and 50,000 square feet of restaurant use. The Specific Plan also includes an option for office use for up to twenty percent of the proposed retail use (20 percent of 500,000 square feet = 100,000 square feet of office). Given the increase in residential units on the site, the proposed project will increase population in the area. Per state Fire and Building Codes, sufficient space will have to be provided around the buildings for emergency personnel, equipment access and emergency evacuation. All project elements, including landscaping, will be sited with sufficient clearance from existing and proposed structures so as not to interfere with emergency access to and evacuation from the facility. The project is required to comply with the California Fire Code (Title 24, California Code of Regulations, Section 9). The site plan includes five ingress/egress access points: two driveways on Flair Drive and three driveways on Rio Hondo Avenue. One driveway on Flair Drive and two driveways on Rio Hondo Avenue will provide access to parking. One driveway on Flair Drive will provide access to the hotel entry area and provide for guest pick-up and drop-off. One driveway on Rio Hondo Avenue will provide access to surface parking on the south side of the development with an interior drive aisle that goes east and north past the hotel to the Flair Drive driveway.

The project driveways will allow evacuation from the site, and will be constructed to California Fire Code specifications. There are existing difficulties in reaching the project site and the Flair Park area and thus potential difficulties in evacuating persons from the area. Access to the vicinity is provided by Flair Drive and Baldwin Avenue. Flair Drive is a two-lane, undivided roadway with freeway access granted via two-lane on- and off-ramps at Aero Jet Avenue. Baldwin Avenue is a two-lane, undivided roadway with two-lane on- and off-ramp freeway access. Considering the addition of residents and employees to an area with limited access, there is the potential to result in inadequate capacity for mass evacuation of the area should a disaster occur and thus could result in potentially significant impacts to human health and life. Expansion of roadways or other access points may be required to provide sufficient evacuation from the area. Potential impacts related to emergency evacuation will be further analyzed in an EIR.

h) **No Impact.** The project site is not located within a fire hazard zone, as identified on the latest Fire Hazard Severity Zone (FHSZ) maps prepared by the California Department of Forestry and Fire Protection (CALFIRE).<sup>36</sup> There are no wildland conditions in the urbanized area where the project site is located. No impact will occur.

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<sup>34</sup> The Planning Center. *Final City of El Monte General Plan and Zoning Code Update Environmental Impact Report SCH#2008071012*. May 2011

<sup>35</sup> Los Angeles County Airport Land Use Commission. *El Monte Airport. Airport Influence Area*. [http://planning.lacounty.gov/assets/upl/project/aluc\\_airport-el-monte.pdf](http://planning.lacounty.gov/assets/upl/project/aluc_airport-el-monte.pdf) [December 2013]

<sup>36</sup> California Department of Forestry and Fire Protection. *Very High Fire Hazard Severity Zones In LRA – Los Angeles County*. September 2011.

### 4.9 – Hydrology and Water Quality

Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Violate any water quality standards or waste discharge requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f) Otherwise substantially degrade water quality?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
j) Inundation by seiche, tsunami, or mudflow?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

a) **Less than Significant Impact.** A project normally would have an impact on surface water quality if discharges associated with the project would create pollution, contamination, or nuisance as defined in Section 13050 of the California Water Code (CWC), or that cause regulatory standards to be violated as defined in the applicable National Pollutant Discharge Elimination System (NPDES) stormwater permit or Water Quality Control Plan for the receiving water body. For the purpose of this specific issue, a significant impact could occur if the project will discharge water that does not meet the quality standards of the agencies which regulate surface and groundwater quality and water discharge into stormwater drainage systems. Significant impacts could also occur if the project does not comply with all applicable regulations with regard to surface water quality as governed by the State Water Resources Control Board (SWRCB). These regulations include preparation of a Standard Urban Storm Water Mitigation Plan (SUSMP) to reduce potential post-construction water quality impacts. In addition, a groundwater workplan is currently being developed by the SWRCB for the prevention and cleanup of groundwater contamination. Five key elements of the workplan include thresholds, monitoring/assessment, governance/management, funding, and enforcement.<sup>37</sup>

Construction Impacts

Three general sources of potential short-term, construction-related stormwater pollution associated with the proposed project include: 1) the handling, storage, and disposal of construction materials containing pollutants; 2) the maintenance and operation of construction equipment; and 3) earth-moving activities that, when not controlled, may generate soil erosion via storm runoff or mechanical equipment. The proposed project will disturb approximately 14.66 acres of land and therefore will be subject to NPDES permit requirements during construction activities. In addition, pursuant to El Monte Municipal Code Section 13.16.100 (Reduction of

<sup>37</sup> State Water Resources Control Board. State Water boards Groundwater Workplan. [http://www.swrcb.ca.gov/water\\_issues/programs/groundwater/workplan.shtml](http://www.swrcb.ca.gov/water_issues/programs/groundwater/workplan.shtml) [July 2014]

pollutants in stormwater), all construction projects shall apply Best Management Practices that control the volume and rate of stormwater runoff. Best Management Practices include drainage controls such as detention ponds, dikes, filter berms, and downdrains to prevent runoff, and plastic covering to prevent erosion. Compliance with City discharge requirements will ensure that the construction of the proposed project will not violate any surface or ground water quality standards or discharge requirements, or otherwise substantially degrade water quality. Impacts will be less than significant with implementation of existing regulations.

Operational Impacts

The proposed project will increase on-site impervious surface when compared to the existing, undeveloped conditions. The proposed project will be subject to NPDES requirements for incorporation of post-construction BMPs to address methods to decrease runoff from impervious surfaces, methods to decrease incremental increases in off-site stormwater flows, and methods for decreasing pollutant loading in off-site discharges, and to implement Low Impact Development (LID) standards. A key design criterion is to treat the first ¾-inch rainstorm flows, since the first rains typically carry the most concentrated levels of pollution that have built up since the last storm. Common post-construction BMPs include filtering stormwater through vegetated areas prior to discharge into the City's storm drain system or retaining stormwater on site to filter back into the groundwater. On-site detention and filtration can be accomplished through surface basins or subsurface collectors. The proposed mixed-use development will not generate hazardous wastewater that will require any special waste discharge permits. All wastewater associated with the building's interior plumbing system will be discharged into the local sewer system for treatment at the regional wastewater treatment plant. Implementation of existing regulations and use of BMPs will ensure that any discharges will not violate any water quality standards. Impacts will be less than significant with implementation of existing regulations.

b) **Less than Significant Impact.** If the project removes an existing groundwater recharge area, substantially reduces runoff that results in groundwater recharge such that existing wells will no longer be able to operate, or substantially depletes groundwater supplies, a potentially significant impact could occur. The project site is located in the Main San Gabriel Basin (Main Basin). Groundwater elevations within the Basin have been measured at 329 feet during its historic high in 1916 and 195 feet during its historic low in 2004.<sup>38</sup> Project-related grading will not reach these depths and no disturbance of groundwater is anticipated. Although the project will result in an increase in impervious surfaces, NPDES requirements limit the increase in discharges to the storm drain system and require implementation of LID standards to minimize urban runoff; therefore, a substantial change in on-site infiltration will not occur. Furthermore, the project site is not utilized for groundwater recharge purposes. Water for the proposed project will be supplied by California American Water (CAW). The proposed project will be served by California American Water (CAW), Los Angeles District. The CAW's water supply serving the San Marino service area is primarily groundwater, extracted by production wells from the Main San Gabriel Groundwater Basin and the Raymond Basin. The CAW's San Marino service area has an allocated pumping right of 3.98 percent of the annually determined safe yield from the Central Basin. As of July 2014, CAW has a fixed allocation of 1,609 AFY for the Raymond Basin.<sup>39</sup> If the CAW pumps more than the allowed amount of water, replacement water must be purchased.<sup>40</sup> Sections 10910-10915 of the state Water Code require the preparation of a water supply assessment (WSA) demonstrating sufficient water supplies for any subdivision that involves the construction of more than 500 dwelling units, or the equivalent thereof. As the project consists of 600 dwelling units, a 220-

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<sup>38</sup> City of El Monte. 2010 Urban Water Management Plan. July 2011.

<sup>39</sup> California American Water. 2010 Urban Water Management Plan. 2012.

<sup>40</sup> California American Water. 2010 Urban Water Management Plan. 2012.

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room hotel, 500,000 square feet of retail, and 50,000 square feet of restaurant use, a WSA is required to ensure that there is sufficient water supply to serve the proposed project and that groundwater will not be substantially depleted. Because this site is not managed for groundwater supplies and no substantial change in infiltration will occur, no changes to groundwater levels will result from the proposed project that could affect local groundwater pumping. Impacts will be less than significant.

c) **Less than Significant Impact.** Potentially significant impacts to the existing drainage pattern of the site or area could occur if development of the project results in substantial on- or off-site erosion or siltation. The project will collect and convey off-site run-off from upstream areas and convey these flows through the site, to the surrounding streets and the existing storm drainage system. A Local Stormwater Pollution Prevention Plan and Wet Weather Erosion Control Plan are required by the City of El Monte and will be reviewed and approved by the City. The final plans will be approved by the City during plan check review. Erosion and siltation reduction measures will be implemented during construction. At the completion of construction, the project will consist of impervious surfaces and landscaped areas, and will therefore not be prone to substantial erosion. No streams cross the project site; thus, the project will not alter any stream course. Impacts will be less than significant.

d) **Potentially Significant Impact.** No streams traverse the project site; thus, the project will not result in the alteration of any stream course. During construction, the project applicant will be required to comply with drainage and runoff guidelines pursuant to El Monte Municipal Code Section 13.16.100 (Reduction of pollutants in stormwater) and Section 13.20.120 (Control of pollutants from demolition and/or construction activities).

With regard to project operation, on-site drainage will be directed to existing storm drains on Flair Drive and Rio Hondo Avenue. Permits to connect to the existing storm drainage system will be obtained prior to construction. Pursuant to El Monte Municipal Code Section 13.20.150 (Post-Construction Pollution Reduction), the proposed project will implement BMPs into the design of the project to reduce pollutants during operation of the project. In addition, an urban storm water storm water mitigation plan consistent with the most recent Countywide Development Planning Model Program is required (El Monte Municipal Code Section 13.20.150). Proposed drainage will be evaluated with storm drain capacity to determine if on- or off-site flooding may occur in an EIR.

e) **Potentially Significant Impact.** Impacts will be significant if the proposed project will create or contribute to runoff water which will exceed the capacity of existing or planned storm water drainage systems. Permits to connect to the existing storm drainage system will be obtained prior to construction. The proposed project will generate urban runoff that needs to be assessed in consideration of existing storm drainage capacity. Impacts related to storm drain capacity will be analyzed further in an EIR.

f) **No Impact.** The project does not propose any uses that will have the potential to otherwise degrade water quality beyond those issues discussed in Section 4.9 herein. No impacts will occur.

g) **No Impact.** According to the El Monte General Plan EIR, no part of El Monte lies within a 100-year flood zone under the National Flood Insurance Program (NFIP) afforded by FEMA.<sup>41</sup> No impact will occur.

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<sup>41</sup> The Planning Center. *Final City of El Monte General Plan and Zoning Code Update Environmental Impact Report SCH#2008071012*. May 2011

h) **No Impact.** The proposed project is not located within a 100-year floodplain, as mapped by the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps. The project site is identified as Zone X, defined by FEMA as areas outside the 0.2 percent annual chance floodplain.<sup>42</sup> Therefore, no rising of a flood plain will occur.

i) **Less than Significant Impact.** The City's General Plan indicates that there is potential for flooding due to dam failure.<sup>43</sup> The project site is located within the flood inundation areas and will be in danger of flood if the Santa Fe Dam and Reservoir were to fail. However, the General Plan and General Plan EIR indicate that the potential and severity for flooding within the City due to dam failure is remote due to water levels in the reservoir. Therefore, impacts from dam inundation will be less than significant based on the analysis provided in the certified General Plan EIR.

j) **No Impact.** The project site is not subject to tsunami due to its elevation and distance (over 24 miles) from the Pacific Ocean. There are above-ground water tanks at five locations in the City. According to the General Plan EIR, there are no bodies of water within the City that will cause substantial inundation due to seiche.<sup>44</sup>

A mudflow (or debris flow) is a rapidly moving slurry of water, mud, rock, vegetation and debris. Larger debris flows are capable of moving trees, large boulders, and even cars. This type of hydrologic hazard is especially dangerous, as it can move at speeds in excess of 10 miles per hour, is capable of crushing buildings, and can strike with very little warning. The development of debris flows is strongly tied to exceptional storm periods of prolonged rainfall. Ground failure occurs during an intense rainfall event, following saturation of the soil by previous rains. Even relatively small amounts of debris can cause damage from inundation and/or impact. There are no exposed soils, slopes, rivers, or streams within the project vicinity that could result in mudflows. No impact will occur.

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<sup>42</sup> The Planning Center. *Final City of El Monte General Plan and Zoning Code Update Environmental Impact Report SCH#2008071012*. May 2011

<sup>43</sup> City of El Monte. General Plan. June 2011.

<sup>44</sup> The Planning Center. *Final City of El Monte General Plan and Zoning Code Update Environmental Impact Report SCH#2008071012*. May 2011

### 4.10 – Land Use and Planning

Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Physically divide an established community?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Conflict with any applicable habitat conservation plan or natural community conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

a) **No Impact.** The proposed project is surrounded by commercial uses and there are no residences located on or adjacent to the project site; therefore, development of the project site could not divide an established community. The project does not propose construction of any roadway, flood control channel, or other structure that will physically divide any portion of the community. Therefore, no impact will occur.

b) **Potentially Significant Impact.** The project site is designated as *Office Professional* in the City’s General Plan and is zoned *Office Professional (OP)*. The proposed project consists of a Specific Plan that will include 600 apartment units, 500,000 square feet of retail, 50,000 square feet of restaurant uses, and a 220-room hotel. The Specific Plan also includes the option for up to twenty percent of the proposed retail square footage to be office use, resulting in 400,000 square feet of retail and 100,000 square feet of office. The proposed project includes an amendment to the General Plan to designate the project site as the Flair Spectrum Specific Plan Area, a Conditional Use Permit to allow the hotel use, and a Conditional Use Permit to allow the development of more than three residential units. Due to the proposed modification to the General Plan, potential changes to office/professional development opportunities within the City, and the proposed Specific Plan that will influence on-site zoning requirements, potential significant impacts related to planning consistency will be further analyzed in an EIR.

c) **No Impact.** As discussed in Section 4.4.f above, the proposed project site and surrounding areas are not part of any habitat conservation plan, natural community conservation plan, or other approved local, regional, or state habitat conservation plan. As such, no impact will occur.

### 4.11 – Mineral Resources

Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

a-b) **No Impact.** The project site is located in a completely urbanized area. Review of aerial photographs indicates that there are no mineral extraction or process facilities on or near the site. In addition, the City does not delineate any important mineral resources in its General Plan or in any other plan.<sup>45</sup> No impact will occur.

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<sup>45</sup> City of El Monte. General Plan. June 2011.

### 4.12 – Noise

Would the project result in:

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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 expose people residing or working in the project area to excessive noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

a) **Potentially Significant Impact.** The El Monte Municipal Code (Chapter 8.36 Noise Control) establishes allowable noise levels for a variety of land uses.<sup>46</sup> Exterior noise exposure for residential uses is allowable up to 55 dBA CNEL and 65 dBA CNEL for commercial uses. Ambient noise in the project vicinity will generally be defined by traffic on Rio Hondo Avenue, Flair Drive,

<sup>46</sup> City of El Monte. Municipal Code.

and Interstate 10, considering there are no other major sources of noise in the project vicinity. A noise impact study will be prepared to determine current and future noise levels in the project vicinity to assess the potential for exposure of on-site and off-site receptors to noise levels in excess of City standards. Potentially significant impacts will be analyzed in an EIR.

b) **Potentially Significant Impact.** Vibration is the movement of mass over time. It is described in terms of frequency and amplitude and unlike sound; there is no standard way of measuring and reporting amplitude. Vibration can be described in units of velocity (inches per second) or discussed in decibel (dB) units in order to compress the range of numbers required to describe vibration. Vibration impacts to buildings are generally discussed in terms of peak particle velocity (PPV) that describes particle movement over time (in terms of physical displacement of mass). For purposes of this analysis, PPV will be used to describe all vibration for ease of reading and comparison. Vibration can impact people, structures, and sensitive equipment.<sup>47</sup> The primary concern related to vibration and people is the potential to annoy those working and residing in the area. Vibration with high enough amplitudes can damage structures (such as crack plaster or destroy windows). Groundborne vibration can also disrupt the use of sensitive medical and scientific instruments such as electron microscopes. Common sources of vibration within communities include construction activities and railroads. Operation of the proposed mixed-use development does not include uses that cause vibration.

According to the Caltrans *Transportation- and Construction-induced Vibration Manual*, vehicles traveling on highways are not an efficient source of ground vibration because these vehicles are supported on flexible suspension systems and pneumatic tires.<sup>48</sup> Minor vibration from heavy truck passages can occur on highways with discontinuities resulting in vibration that generally last for a fraction of a second and rapidly drop off. Because of these factors, Caltrans does not require or recommend analysis of highway vibration.

Groundborne vibration generated by construction projects is usually highest during pile driving, rock blasting, soil compacting, jack hammering, and demolition-related activities. Next to pile driving, grading activity has the greatest potential for vibration impacts if large bulldozers, large trucks, or other heavy equipment are used. Currently, it is unknown if the project will require rock blasting or pile driving. Site clearing and grading activities will require the use of heavy construction equipment. Use of these types of equipment could result in potentially significant impacts related to damage to nearby structures and annoyance to nearby receptors. Impacts related to groundborne vibration during construction will be analyzed further in an EIR.

c) **Potentially Significant Impact.** The proposed project's noise impacts will be significant if it causes ambient noise levels to increase by 5 dBA or more (a readily perceptible level of noise increase to the human ear). A noise impact analysis will be prepared to evaluate the changes in ambient noise levels resulting from the proposed project. Ambient noise in the vicinity will generally be defined by traffic on Rio Hondo Avenue, Flair Drive, and I-10. Pursuant to Municipal Code Section 8.36.040 (Ambient Noise Standards), increasing the noise level at the property line of any property to exceed the ambient noise level by more than 5 dBA for a period of 15 minutes in any hour is a potentially significant noise impact. Impacts will be analyzed further in an EIR.

d) **Potentially Significant Impact.** Operationally, the project will result in periodic noise outdoors associated with landscaping activities, solid waste and recycling pick-up, and people

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<sup>47</sup> California Department of Transportation. *Transportation- and Construction-Induced Vibration Guidance Manual*. June 2004

<sup>48</sup> *Ibid*

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talking outside in the common areas and roof-top restaurants. While these activities are common for residential and commercial uses, it is currently unknown to what extent these activities could impact nearby or on-site uses; therefore, periodic operational noise increase will be analyzed further in an EIR.

The proposed project will result in temporary construction-related noise increases due to on-site ground disturbing and construction activities. The El Monte Municipal Code (Section 8.36.050) limits the days and times of construction in order to minimize noise impacts on surrounding properties. Construction activities are limited to the hours of 6:00 A.M. and 7:00 P.M. on weekdays and 8:00 A.M. and 7:00 P.M. on weekends or as otherwise allowed per a noise permit.

Construction noise levels vary, depending on the type and intensity of construction activity, equipment type and duration of use, and the distance between the noise sources of the receiver. The project site is surrounded by commercial use to the west, south, and east with residential use approximately 305 feet to the north of the property line (north of I-10). Temporary construction noise could result in potentially significant impacts to surrounding land uses and will be analyzed further in an EIR.

e,f) **Less than Significant Impact.** El Monte Airport is located approximately 1.5 miles northeast of the project site. One heliport is located at the El Monte Airport. According to the General Plan EIR, the 70 dBA noise contour for the airport does not extend beyond airport property lines; therefore, impacts will be less than significant.

### 4.13 – Population and Housing

Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

a) **Potentially Significant Impact.** Impacts will be significant if the proposed project will directly or indirectly result in substantial population growth in the area and regional growth as defined by SCAG. The proposed mixed-use project includes 600 residential units, a 220-room hotel, 500,000 square feet of retail, and 50,000 square feet of restaurant use which will result in direct residential and employment growth. The proposed Specific Plan also includes the option for up to twenty percent of the proposed retail use (100,000 square feet) to be developed as office use. The increase in residential units and employment opportunities could result in substantial population and employment growth in the City and region. Potential impacts will be evaluated in an EIR.

b) **No Impact.** The project site is currently vacant with no residential units existing on site; therefore, the proposed project will not result in the displacement of existing housing necessitating the construction of replacement housing elsewhere. No impact will result.

c) **No Impact.** Displacement, in the context of housing, can generally be defined as persons or groups of persons who have been forced or obliged to flee or to leave their homes or places of habitual residence.<sup>49</sup> The project site is vacant and therefore no residents will be required to relocate. As such, there is no *forced* or *obliged* removal of persons, and therefore no displacement. No impact will result.

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<sup>49</sup> The Brookings Institute. Handbook for Applying the Guiding Principles on Internal Displacement. 1999.

### 4.14 – Public Services

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

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Fire protection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Police protection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Schools?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Parks?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Other public facilities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

a) **Potentially Significant Impact.** The Los Angeles County Fire Department (LACFD) East Operations Bureau Division IX provides fire protection and emergency medical response services in the City of El Monte. The project site is located approximately two miles west of the Station 166 located at 3615 Santa Anita Avenue. According to the General Plan EIR, Station 166 is equipped with one quint (combination fire engine and ladder truck), one paramedic squad, one battalion, and one utility truck and is staffed with six firefighters daily.<sup>50</sup>

The City of El Monte reviews construction plans to make sure all proposed buildings meet appropriate safety codes prior to construction. Fire inspectors perform plan review on all proposed fire sprinkler systems, fire alarm systems, and restaurant hood extinguishing system installation.

The proposed project will not have a significant impact on fire response times because the project is located within the existing service area of the LACFD and the proposed mixed-use project does not propose to use substantially hazardous materials or engage in hazardous activities that will require new or modified fire protection equipment to meet potential emergency demand; however, the need for new or physically altered fire protection equipment and facilities may be required due to the density and height of the proposed project and will be further analyzed in an EIR.

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<sup>50</sup> The Planning Center. *Final City of El Monte General Plan and Zoning Code Update Environmental Impact Report SCH#2008071012*. May 2011

b) **Potentially Significant Impact.** The El Monte Police Department (EMPD) provides police protection services in the City of El Monte. The EMPD has 127 sworn police officers, 46 civilian personnel, and four K-9 units.<sup>51</sup> EMPD staff is supplemented by volunteers who are enlisted through the Volunteers Caring and Patrolling Program. The EMPD Main Police Station is located at 11333 Valley Boulevard, approximately 2.3 miles east of the project site, at the El Monte City Hall. The EMPD has an estimated average response time of four minutes and 40 seconds to Priority 1 calls to any part of the City. The need for new or expanded police facilities and any potential impacts will be evaluated in an EIR.

c) **Potentially Significant Impact.** As a mixed-use development with a residential component, this project will generate direct demand for school facilities. There is a potential for households with school-age children relocating to the El Monte Area as a result of the proposed residential units. The project will be served by El Monte City School District and El Monte Union High School District.

Pursuant to the Leroy F. Green School Facilities Act (AB 2926), the project proponent will be required to pay developer fees to the El Monte City School District and the El Monte Union High School District, prior to the issuance of building permits, at the then current rate charged to residential development projects. This fee will help support provision of school services for the community as a whole. According to AB 2926, payment of developer fees constitutes adequate mitigation for any project-related impacts to school facilities. However, due to the number of proposed dwelling units, impacts related to the construction of school facilities will be evaluated further in an EIR.

d) **Potentially Significant Impact.** Demand for park and recreational facilities are generally the direct result of residential development. The City's Municipal Code Section 16.34.030 requires that new developments dedicate land or pay fees in lieu of, or pay and dedicate a combination of both for park and/or recreational facilities. The proposed project includes 600 apartment units and a 220-room hotel. Both uses will result in a direct demand for recreational facilities. Impacts related to the construction of recreational facilities will be evaluated in an EIR.

e) **Potentially Significant Impact.** The proposed project, a mixed-use development, will result in a growth of a maximum of 2,340 residents from a population of 113,475 as indicated in the 2010 Census. This increase in residents represents a two percent increase, resulting in increased demand for public services such as libraries or hospitals. The need for expanded public service facilities will be evaluated in an EIR.

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<sup>51</sup> The Planning Center. *Final City of El Monte General Plan and Zoning Code Update Environmental Impact Report SCH#2008071012*. May 2011

**4.15 – Recreation**

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

a - b) **Potentially Significant Impact.** The proposed project includes 600 apartment units and a 220-room hotel that will increase the population in the project vicinity. The proposed project is subject to park fees to support existing and future public recreation efforts. However, the proposed project has the potential to significantly increase use of existing recreational facilities as on-site amenities could be limited based on the conceptual design of the project. Impacts to existing facilities and the potential need for construction of new or expansion of existing recreational facilities will be evaluated further in an EIR.

### 4.16 – Transportation and Traffic

Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Result in inadequate emergency access?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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f) Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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a) **Potentially Significant Impact.** The City of El Monte requires that intersections that will have traffic volumes increased by a minimum of 50 trips during the A.M. or P.M. peak hours be studied to evaluate potential impacts to the local and regional transportation network. A traffic study is required for the proposed project because the project is anticipated to exceed this screening threshold at some local and regional intersections. A traffic impact analysis and the results will be analyzed in an EIR.

b) **Potentially Significant Impact.** Pursuant to the Los Angeles County Metropolitan Transportation Authority Congestion Management Plan (CMP), any project that adds 150 or more vehicle trips to freeway segments or 50 or more vehicle trips to roadway segments during peak hours must be examined for impact of CMP roadways and intersections. There is one CMP roadway segment within the project vicinity: Interstate-10 between Rosemead Boulevard and the eastern City limits.<sup>52</sup> Proposed project traffic impacts will be potentially significant if they conflict with CMP level of service standards established by the congestion management agency. A traffic study will be prepared for the project and impacts will be analyzed in an EIR.

c) **Less than Significant Impact.** A significant impact will occur if the proposed project causes a change in air traffic patterns that will result in a substantial safety risk. The El Monte Airport is located approximately 1.5 miles northeast of the project site. However, as stated in the El Monte General Plan Public Health and Safety Element, the runway protection zones do not extend outside the airport property and development will not conflict with ongoing aviation operations.<sup>53</sup> Impacts will be less than significant.

d) **Potentially Significant Impact.** A significant impact will occur if the proposed project substantially increased an existing hazardous design feature or introduced incompatible uses to the existing traffic pattern. The proposed conceptual site plan includes five ingress/egress access points: two driveways on Flair Drive and three driveways on Rio Hondo Avenue. One driveway on Flair Drive and two driveways on Rio Hondo Avenue will provide access to parking. One driveway on Flair Drive will provide access to the hotel entry area and provide for guest pick-up and drop-off. One driveway on Rio Hondo Avenue will provide access to surface parking on the south side of the development with an interior drive aisle that goes east and north past the hotel to the Flair Drive driveway. The design of the proposed project will comply with all applicable City regulations. Furthermore, the proposed project does not involve changes in the alignment of Rio Hondo Avenue or Flair Drive, the streets adjacent to the project site. Driveway width, line-of-sight at ingress and egress points, proximity of the project site to fire hydrants, and access to fire hydrants will be analyzed and verified in an EIR.

The project includes construction of hotel, retail, and residential uses to be accommodated by a parking structure. A parking study will be prepared for the project to determine if adequate

<sup>52</sup> Los Angeles County Metropolitan Transportation Authority. Congestion Management Program. [http://www.metro.net/projects\\_studies/cmp/images/CMP\\_Final\\_2010.pdf](http://www.metro.net/projects_studies/cmp/images/CMP_Final_2010.pdf) [December 2013]

<sup>53</sup> City of El Monte. General Plan. June 2011

parking can be provided to serve the project. Potential parking issues and associated hazards will be analyzed in an EIR.

e) **Potentially Significant Impact.** A significant impact will occur if the design of the proposed project does not satisfy emergency access requirements of the Los Angeles County Fire Department or in any other way threaten the ability of emergency vehicles to access and serve the project site or adjacent uses. The proposed project will not result in inadequate emergency access on site. As discussed above, access to the project site is proposed via five driveways: two driveways on Flair Drive and three driveways on Rio Hondo Avenue. The widths will be of sufficient length to provide access to fire and emergency vehicles and will be consistent with the California Fire Code. All access features are subject to and must satisfy the City of El Monte design requirements, including the County Fire Department's requirements. Impacts related to on-site emergency access is less than significant and will not be addressed further in an EIR.

Access to the site is provided via driveways on Flair Drive and Rio Hondo Avenue. These are two-lane, undivided roadways that allow street parking. These roadways may not provide sufficient width to allow for adequate emergency access to the areas of the project site or surrounding areas and thus may require improvements such as lane widening to provide sufficient emergency access. Due to the widths of these roadways, adequacy of these roadways to provide emergency access to the project site will be analyzed in an EIR.

f) **Potentially Significant Impact.** Public bus transit service in the project vicinity is currently provided by the Metropolitan Transportation Authority (Metro). Metro operates one transit bus route in the project vicinity. Route 176 runs east-west from Highland Park to Montebello through South Pasadena, San Gabriel, Rosemead, El Monte, and South El Monte via Mission Street, Mission Drive, Tyler Avenue, and Rush Street.<sup>54</sup> It is unknown at this time if the proposed project will result in any changes to lane or street configuration of Rio Hondo Avenue or Flair Drive or to existing sidewalks that could affect performance or safety of alternative transportation facilities. Potential impacts to alternate transit facilities will be analyzed.

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<sup>54</sup> Los Angeles Metropolitan Transit Authority. 200-299 Timetables. Metro Local – Highland Park – El Monte Station – The Shops at Montebello via Mission St/Dr, Tyler Av & Rush St. [http://media.metro.net/riding\\_metro/bus\\_overview/images/176.pdf](http://media.metro.net/riding_metro/bus_overview/images/176.pdf) [June 2014]

### 4.17 – Utilities and Service Systems

Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) 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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g) Comply with federal, state, and local statutes and regulations related to solid waste?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

a) **Less than Significant Impact.** The proposed project could affect Regional Water Quality Control Board treatment standards by increasing wastewater production such that expansion of existing facilities or construction of new facilities will be required. Exceeding the RWQCB

treatment standards could result in contamination of surface or groundwater with pollutants such as pathogens and nitrates.

New development in the City is required to install wastewater infrastructure concurrent with project development. Wastewater collection facilities are owned, operated, and maintained by the El Monte Public Works Department. The City's wastewater system includes 135 miles of pipeline and six pump stations. A limited number of residences are on septic tanks. El Monte is one of 17 jurisdictions in the metropolitan Los Angeles area that is a signatory to the Joint Outfall Agreement that provides a regional, interconnected system of facilities known as the Joint Outfall System (JOS). The Sanitation Districts of Los Angeles County treat wastewater at the Whittier Narrows Water Reclamation Plant, located south of the City. Tertiary-treated effluent, or "recycled water," is used for irrigation, industrial uses, and for groundwater recharge at spreading basins along the San Gabriel River and Rio Hondo Channel. Sludge is placed back into the sewer system for conveyance to the Joint Water Pollution Control Plant (JWPCP) in Carson for further treatment prior to eventual disposal into the Pacific Ocean. The Whittier Narrows WRP provides treatment for 15 million gallons of wastewater per day.<sup>55</sup> Sewer and storm drain impact fees are authorized under Chapter 15.08.010 of the City's Municipal Code. Local flood control facilities are maintained by the City, with regional facilities under the jurisdiction of the Los Angeles County Department of Public Works. All wastewater generated by the interior plumbing system of the proposed project will be discharged into the local sewer main and conveyed for treatment at the Sanitation Districts of Los Angeles County's Whittier Narrows Water Reclamation Plant. Wastewater flows will consist of typical residential and commercial wastewater discharges and will not require new methods or equipment for treatment that are not currently permitted for the Plant. Wastewater flows associated with the proposed project will consist of the same kinds of substances typically generated by residential and commercial uses and no modifications to any existing wastewater treatment systems or construction of any new ones will be needed to treat this project's wastewater. This project will thus have a less than significant impact on the ability of the Whittier Narrows WRP to operate within its established wastewater treatment requirements, which are enforced via the facility's NPDES permit authorized by the Los Angeles Regional Water Quality Control Board (LARWQCB). Therefore, the project will have a less than significant impact related to wastewater treatment requirements of the LARWQCB.

b) **Potentially Significant Impact.** For discussion of water supply, please see subsection 4.17.d. As discussed in the preceding response, wastewater generated at the project site is treated at the Whittier Narrows WRP. Based on the Sanitation District of Los Angeles County loading factors, the proposed project is estimated to have a wastewater generation of approximately 333,600 gallons per day that consists of approximately two percent of the Whittier Narrows WRP 15 million gallon per day treatment capacity.<sup>56</sup> The proposed Specific Plan also includes an option for up to twenty percent of the proposed retail space to be developed as office space. This option will generate approximately 321,100 gallons of wastewater per day. General Plan Policy PSF-4.3 requires development to pay the full cost of improving water, wastewater, road, parks, or other infrastructure necessitated by their projects, unless findings are made that the fair-share requirement should be waived due to overriding public benefit. Potential impacts related to the construction of new water or wastewater facilities or expansion of existing facilities will be further analyzed in an EIR.

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<sup>55</sup> Los Angeles County Sanitation District. Whittier Narrows Water Reclamation Plant. [http://www.lacsd.org/wastewater/wwfacilities/joint\\_outfall\\_system\\_wrp/whittier\\_narrows.asp](http://www.lacsd.org/wastewater/wwfacilities/joint_outfall_system_wrp/whittier_narrows.asp) [June 2014]

<sup>56</sup> County Sanitation Districts of Los Angeles County. Loadings for Each Class of Land Use. <http://www.lacsd.org/civica/filebank/blobdload.asp?BlobID=3531> [June 2014]

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Connections to local water and sewer mains will involve temporary construction impacts that will occur in conjunction with other on-site improvements. Local water and sewer mains need to be assessed to ascertain if adequate capacity is available to convey water to the Whittier Narrows WRP. If water or sewer mains are required to be expanded to serve the proposed project, construction of those facilities may result in potentially significant impacts. Potential impacts related to expansion of local water and sewer mains will be further analyzed in the EIR.

c) **Potentially Significant Impact.** Potentially significant impacts could occur as a result of the proposed project if storm water runoff was increased to a level that will require construction of new storm drainage facilities. As discussed in Section 4.9.e, the proposed project will generate urban runoff that needs to be assessed in consideration of existing storm drainage capacity. Potentially significant impacts related to storm drain capacity will be analyzed further in an EIR.

d) **Potentially Significant Impact.** The proposed project will be served by California American Water (CAW), Los Angeles District. The CAW's water supply serving the San Marino service area is primarily groundwater, extracted by production wells from the Main San Gabriel Groundwater Basin and the Raymond Basin. The CAW's San Marino service area also has an allocated pumping right of 3.98 percent of the annually determined safe yield from the Central Basin. As of July 2014, CAW has a fixed allocation of 1,609 AFY for the Raymond Basin<sup>57</sup>. If the CAW pumps more than the allowed amount of water, replacement water must be purchased.<sup>58</sup> Sections 10910-10915 of the state Water Code require the preparation of a water supply assessment (WSA) demonstrating sufficient water supplies for any subdivision that involves the construction of more than 500 dwelling units, or the equivalent thereof. As the project consists of 600 dwelling units, a 220-room hotel, 500,000 square feet of retail, and 50,000 square feet of restaurant use, a WSA is required. Water supply and adequate pressure and storage will be further evaluated in an EIR.

e) **Potentially Significant Impact.** Potentially significant impacts could occur as a result of the proposed project if the Sanitation Districts of Los Angeles County determines that Whittier Narrows WRP does not have adequate capacity to treat wastewater discharged by the proposed project. Wastewater discharges will be further evaluated in an EIR.

f) **Less than Significant Impact.** Significant impacts could occur if the proposed project will exceed the existing permitted landfill capacity or violates federal, state, and local statutes and regulations. El Monte is served by three waste management companies through nonexclusive franchise agreements. American Reclamation serves the commercial and multi-family sectors. Valley Vista Services serves the residential, commercial, and multifamily sectors for areas north of I-10. Waste Management, Inc. also serves the commercial sector.<sup>59</sup> Regional landfill capacity fluctuates daily and is regularly monitored by the County Sanitation Districts of Los Angeles County to ensure there is sufficient landfill space available to dispose of municipal solid wastes throughout the San Gabriel Valley. This project's additional solid waste stream will have a less than significant impact on regional landfill capacity. Cities must meet the 50 percent landfill diversion mandate required by State law. General Plan Policy PSF-3.1 states that waste should be diverted from landfills in levels that meet state mandates and support sustainable practices through a comprehensive program of source reduction and recycling. In 2012, the per resident

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<sup>57</sup> California American Water. 2010 Urban Water Management Plan. 2012.

<sup>58</sup> California American Water. 2010 Urban Water Management Plan. 2012.

<sup>59</sup> City of El Monte. Environmental Services Department. <http://elmonteca.gov/Government/PublicWorks/EnvironmentalSrvs/ContactyourWasteHauler.aspx> [June 2014]

disposal rate was 4.4 pounds per day, below the target of no more than 6.8 pounds per day and less than waste in 2007 (6.0 pounds per day).<sup>60</sup> According to the California Department of Resources Recycling and Recovery (CalRecycle), the City disposes of waste at several area landfills, including:

- Puente Hills Landfill (Closed in October 2013)
- El Sobrante Landfill
- Olinda Alpha Sanitary Landfill
- Chiquita Canyon Sanitary Landfill
- Azusa Land Reclamation County Landfill
- Antelope Valley Public Landfill
- Sunshine Canyon City/County Landfill
- Lancaster Landfill and Recycling Center
- Simi Valley Landfill and Recycling Center
- Kettleman Hills-B18 Nonhaz Codisposal
- Mid-Valley Sanitary Landfill

The majority of waste in 2012 (total solid waste disposal in El Monte in 2012 totaled 91,277 tons) went to the Puente Hills Landfill, El Sobrante Landfill and the Olinda Alpha Sanitary Landfill.<sup>61</sup> The Puente Hills Landfill closed on October 31, 2013. Although solid waste will no longer be accepted at the landfill, other facilities are available to accept the City's waste. The El Sobrante Landfill, located in Corona, has a permitted daily capacity of 16,054 tons, with a permitted total capacity of 184,930,000 tons and a remaining capacity of 145,530,000 tons. This landfill is projected to close in 2045.<sup>62</sup> The Olinda Alpha Sanitary Landfill, located in Brea, has a permitted daily capacity of 8,000 tons per day and a total capacity of 74,900,000 cubic yards, with a remaining capacity of 38,578,383 cubic yards. This landfill is estimated to close in 2021.<sup>63</sup> Although these existing landfills currently used by El Monte are anticipated to close in 2045 and 2021, other regional landfills have remaining capacity. Also, regional plans are underway to transport waste by rail to landfill sites in the desert areas to the east of the County.

Utilizing waste production methodology from the California Department of Resources, Recycling, and Recovery (CALRECYCLE), the proposed project will generate approximately 3,431 tons of solid waste per year.<sup>64</sup> The proposed Specific Plan also includes an option for up to twenty percent of the proposed retail space to be developed as office space. This option will generate approximately 3,066 tons of solid waste per year. There is adequate landfill capacity in the region to accommodate project-generated waste. Considering the availability of landfill capacity and the amount of solid waste generation from the proposed project, project solid waste disposal needs can be adequately met without a significant impact on the capacity of the nearest and optional, more distant, landfills. Impacts will therefore be less than significant.

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<sup>60</sup> CalRecycle. Facility/Site Summary Details, Jurisdiction Diversion/Disposal Rate Summary. <http://www.calrecycle.ca.gov/LGCentral/reports/diversionprogram/JurisdictionDiversionPost2006.aspx> [June 2014]

<sup>61</sup> CalRecycle. Jurisdiction Disposal by Facility. <http://www.calrecycle.ca.gov/LGCentral/Reports/DRS/Destination/JurDspFa.aspx> [June 2014]

<sup>62</sup> CalRecycle. Facility/Site Summary Details: El Sobrante (33-AA-0217) <http://www.calrecycle.ca.gov/SWFacilities/Directory/19-AA-0053/Detail/> [June 2014]

<sup>63</sup> CalRecycle. Facility/Site Summary Details: Olinda Alpha Sanitary Landfill (30-AB-0035) <http://www.calrecycle.ca.gov/SWFacilities/Directory/19-AA-0052/Detail/> [June 2014]

<sup>64</sup> CalRecycle. Waste Characterization: Estimated Solid Waste Generation and Disposal Rates. <http://www.calrecycle.ca.gov/wastechar/wastegenrates/> [June 2014]

## Evaluation of Environmental Impacts

g) **No Impact.** The proposed project is required to comply with all applicable federal, state, County, and City statutes and regulations related to solid waste as a standard project condition of approval. Therefore, no impact will occur.

**4.18 – Mandatory Findings of Significance**

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Does the project have impacts that are individually limited, but cumulatively considerable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

a) **Potentially Significant Impact.** The proposed project is located within an urbanized area with no natural habitat. Impacts associated with visual character will be potentially significant. The proposed project will not result in impacts to biological resources. Impacts to cultural resources are potentially significant. The environmental analysis provided in Section 4.3 concludes that impacts related to emissions of criteria pollutants and other air quality impacts may pose significant environmental impacts. In addition, Sections 4.7 and 4.12 conclude that impacts related to climate change and noise are potentially significant. The City hereby finds that the proposed project may result in potentially significant impacts through degradation of the quality of the environment and an Environmental Impact Report will be prepared.

b) **Potentially Significant Impact.** Cumulative impacts can result from the interactions of environmental changes resulting from one proposed project with changes resulting from other past, present, and probable future projects that affect the same resources, utilities and infrastructure systems, public services, transportation network elements, air basin, watershed, or other physical conditions. Such impacts could be short-term and temporary, usually consisting of overlapping construction impacts, as well as long term, due to the permanent land use changes involved in the proposed project. The proposed project will generally result in less than significant or no environmental impacts related to agricultural resources, biological resources, and mineral resources. Cumulative impacts related to aesthetics, air quality, cultural resources,

## Evaluation of Environmental Impacts

geology and soils, greenhouse gas emissions, hazards and hazardous materials, hydrology and water quality, land use and planning, noise, population and housing, public services, recreation, transportation and traffic, and utilities and service systems are potentially significant and will be evaluated in accordance with CEQA requirements in an EIR. The City hereby finds that the proposed project may result in potentially significant cumulative impacts and an Environmental Impact Report will be prepared.

c) **Potentially Significant Impact.** Based on the analysis of the proposed project's impacts in the responses to Sections 4.1 through 4.17, there is indication that the proposed project could result in substantial adverse effects on human health and welfare. Based on the analysis in this Initial Study, the City finds that direct and indirect impacts to human beings will be potentially significant and an Environmental Impact Report will be prepared.



### ***5.1 – List of Preparers***

#### **City of El Monte (Lead Agency)**

Planning Division  
11333 Valley Boulevard  
El Monte, California 91731  
626.285.8626

- Minh Thai, Economic Development Director
- Jason Mikalian, Planning Service Manager
- Shannon Kimball, Contract Planner

#### **MIG | Hogle-Ireland (Environmental Analysis)**

1500 Iowa Avenue, Suite 110  
Riverside, California 92507  
951-787-9222

- Rick Zimmer, Principal
- Christopher Brown, Director of Environmental Services
- Olivia Chan, Project Associate
- Cameron Hile, Project Assistant

#### **Group Delta Consultants (Geotechnical Analysis)**

32 Mauchly, Suite B  
Irvine, California 92618  
949.450-2100

- Kul Bhushan, Ph.D., G.E.

#### **Odic Environmental (Phase II Environmental Site Assessment)**

3255 Wilshire Boulevard, Suite 1510  
Los Angeles, California 90010  
888.634.2368

- John Winkler, P.G.

#### **Ninyo & Moore (Phase II Environmental Site Assessment)**

475 Goddard, Suite 200  
Irvine, California 92618  
949.753.7070

- Peter Sims, Senior Staff Environmental Geologist
- Nancy J. Anglin, REA, Principal Engineer/Operations Manager
- Prasad Thimmappa, P.E., Senior Project Engineer
- Walter R. Crone, P.G., REA, Principal Environmental Geologist

**Linscott Law & Greenspan (Transportation and Traffic)**

600 S. Lake Avenue, Suite 500  
Pasadena, California 91106  
626.796.2322

- Clare M. Look-Jaeger, P.E.
- Francesca S. Bravo

***5.2 – Persons and Organizations Consulted***

None

**CITY OF EL MONTE, CALIFORNIA**  
**NOTICE OF PREPARATION OF AN ENVIRONMENTAL IMPACT REPORT**  
**AND PUBLIC INVITATION TO ATTEND A "SCOPING SESSION"**  
**FOR A PROPOSED MIXED-USE DEVELOPMENT**

**(Hablamos Español favor de hablar con Marcella Magdaleno at (626) 258-8626)**

The City of El Monte (the "City") is the lead agency for the preparation of an Environmental Impact Report (EIR) consistent with the provisions of the California Environmental Quality Act (CEQA) for the Project identified below. A Project "Scoping Session" is also being conducted to ensure the public has the opportunity to provide input on topics related to the Environmental Impact Report. The City hereby invites any interested individuals to provide comments on the scope and content of the Environmental Impact Report.

<b>PROJECT TITLE:</b>	"Flair Spectrum El Monte" Project and Specific Plan
<b>PUBLIC REVIEW PERIOD:</b>	July 11, 2014 to August 11, 2014
<b>SCOPING MEETING:</b>	Wednesday, July 30, 2014 at 6:30 P.M. El Monte City Hall East, Council Chambers 11333 Valley Boulevard, El Monte, CA
<b>RESPONSES AND COMMENTS :</b>	Responses and comments can be provided orally or in writing at the scoping meeting. In addition, they may also be submitted in writing to 5:00 P.M. August 11, 2014. Comments, questions and written correspondence may be directed to: Jason C. Mikaelian, Planning Service Manager City of El Monte - City Hall West 11333 Valley Boulevard El Monte, CA 91731 (626) 580-2064 <a href="mailto:jmikaelian@elmonteca.gov">jmikaelian@elmonteca.gov</a>
<b>PROJECT LOCATION:</b>	9400 Flair Drive (Assessor Parcel Numbers 8581-001-025, 029 & 046) at the southeast corner of Flair Drive and Rio Hondo Avenue.



**ORIGINAL FILED**  
**JUL 10 2014**  
**LOS ANGELES, COUNTY CLERK**

**CITY OF EL MONTE, CALIFORNIA**  
**NOTICE OF PREPARATION OF AN ENVIRONMENTAL IMPACT REPORT**  
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**ORIGINAL FILED**  
**JUL 10 2014**  
**LOS ANGELES, COUNTY CLERK**

Los Angeles County Registrar / Recorder  
12400 Imperial Highway, Norwalk, CA  
(800)201-8999

Business Filings

NORWALK

Cashier: M. FISHER



\* 2 0 1 4 0 7 1 0 0 5 2 0 0 2 3 \*

Thursday, July 10, 2014 4:37 PM

Item(s)

<u>Fee</u>	<u>Qty</u>	<u>Total</u>
NoP - County Posting Fee 2014187141	1	\$75.00
<b>Total</b>		<b>\$75.00</b>

Total Documents: 1

Customer payment(s):

Cash	\$80.00
Change	(\$5.00)

**Notice of Completion & Environmental Document Transmittal**

Mail to: State Clearinghouse, P.O. Box 3044, Sacramento, CA 95812-3044 (916) 445-0613  
 For Hand Delivery/Street Address: 1400 Tenth Street, Sacramento, CA 95814

SCH # N/A
-----------

**Project Title:** Flair Spectrum El Monte Specific PlanLead Agency: City of El Monte, Planning DivisionContact Person: Jason MikaelianMailing Address: 11333 Valley BoulevardPhone: 626-258-8626City: El MonteZip: 91731County: Los Angeles**Project Location:** County: Los Angeles City/Nearest Community: El MonteCross Streets: Flair Drive and Rio Hondo Avenue Zip Code: 91731Longitude/Latitude (degrees, minutes and seconds): 34 ° 04 ' 14 " N / 118 ° 03 ' 47 " W Total Acres: 14.66Assessor's Parcel No.: 8581-001-046 Section: N/A Twp.: 1S Range: 11W Base: SBBMWithin 2 Miles: State Hwy #: I-10Waterways: MultipleAirports: El Monte AirportRailways: MultipleSchools: Multiple**Document Type:**CEQA:  NOP Draft EIRNEPA:  NOIOther:  Joint Document Early Cons Supplement/Subsequent EIR EA Final Document Neg Dec

(Prior SCH No.) \_\_\_\_\_

 Draft EIS Other: \_\_\_\_\_ Mit Neg Dec

Other: \_\_\_\_\_

 FONSI**Local Action Type:** General Plan Update Specific Plan Rezone Annexation General Plan Amendment Master Plan Prezone Redevelopment General Plan Element Planned Unit Development Use Permit Coastal Permit Community Plan Site Plan Land Division (Subdivision, etc.) Other: \_\_\_\_\_**Development Type:** Residential: Units 600 Acres 1.5 Office: Sq.ft. \_\_\_\_\_ Acres \_\_\_\_\_ Employees \_\_\_\_\_ Transportation: Type \_\_\_\_\_ Commercial: Sq.ft. 550K Acres 5.46 Employees 1,298 Mining: Mineral \_\_\_\_\_ Industrial: Sq.ft. \_\_\_\_\_ Acres \_\_\_\_\_ Employees \_\_\_\_\_ Power: Type \_\_\_\_\_ MW \_\_\_\_\_ Educational: \_\_\_\_\_ Waste Treatment: Type \_\_\_\_\_ MGD \_\_\_\_\_ Recreational: \_\_\_\_\_ Hazardous Waste: Type \_\_\_\_\_ Water Facilities: Type \_\_\_\_\_ MGD \_\_\_\_\_ Other: 220-Room Hotel**Project Issues Discussed in Document:** Aesthetic/Visual Fiscal Recreation/Parks Vegetation Agricultural Land Flood Plain/Flooding Schools/Universities Water Quality Air Quality Forest Land/Fire Hazard Septic Systems Water Supply/Groundwater Archeological/Historical Geologic/Seismic Sewer Capacity Wetland/Riparian Biological Resources Minerals Soil Erosion/Compaction/Grading Growth Inducement Coastal Zone Noise Solid Waste Land Use Drainage/Absorption Population/Housing Balance Toxic/Hazardous Cumulative Effects Economic/Jobs Public Services/Facilities Traffic/Circulation Other: Climate Change**Present Land Use/Zoning/General Plan Designation:**Land Use: Vacant; Zoning: Office Professional; General Plan: Office Professional**Project Description:** (please use a separate page if necessary)

The Project will realize 500,000 square feet of new retail outlet mall use, a 220-room hotel, and 600 apartment units within an approximately 14.66-acre site, located in the western portion of El Monte, near the intersection of Flair Drive and Rio Hondo Avenue. The Project also includes the option for up to 20 percent of the proposed retail square footage to be developed as office use (resulting in 100,000 square feet of office and 400,000 square feet of retail). The Project includes the proposed retail, hotel, residential, parking, and all facilities proposed within the Project site, on- and off-site supporting improvements, and associated discretionary actions.

Note: The State Clearinghouse will assign identification numbers for all new projects. If a SCH number already exists for a project (e.g. Notice of Preparation or previous draft document) please fill in.

## Reviewing Agencies Checklist

Lead Agencies may recommend State Clearinghouse distribution by marking agencies below with an "X".  
If you have already sent your document to the agency please denote that with an "S".

<input type="checkbox"/> Air Resources Board	<input type="checkbox"/> Office of Historic Preservation
<input type="checkbox"/> Boating & Waterways, Department of	<input type="checkbox"/> Office of Public School Construction
<input type="checkbox"/> California Emergency Management Agency	<input type="checkbox"/> Parks & Recreation, Department of
<input type="checkbox"/> California Highway Patrol	<input type="checkbox"/> Pesticide Regulation, Department of
<input checked="" type="checkbox"/> Caltrans District #7	<input type="checkbox"/> Public Utilities Commission
<input type="checkbox"/> Caltrans Division of Aeronautics	<input checked="" type="checkbox"/> Regional WQCB #4
<input checked="" type="checkbox"/> Caltrans Planning	<input type="checkbox"/> Resources Agency
<input type="checkbox"/> Central Valley Flood Protection Board	<input type="checkbox"/> Resources Recycling and Recovery, Department of
<input type="checkbox"/> Coachella Valley Mtns. Conservancy	<input type="checkbox"/> S.F. Bay Conservation & Development Comm.
<input type="checkbox"/> Coastal Commission	<input type="checkbox"/> San Gabriel & Lower L.A. Rivers & Mtns. Conservancy
<input type="checkbox"/> Colorado River Board	<input type="checkbox"/> San Joaquin River Conservancy
<input type="checkbox"/> Conservation, Department of	<input type="checkbox"/> Santa Monica Mtns. Conservancy
<input type="checkbox"/> Corrections, Department of	<input type="checkbox"/> State Lands Commission
<input type="checkbox"/> Delta Protection Commission	<input type="checkbox"/> SWRCB: Clean Water Grants
<input type="checkbox"/> Education, Department of	<input type="checkbox"/> SWRCB: Water Quality
<input type="checkbox"/> Energy Commission	<input type="checkbox"/> SWRCB: Water Rights
<input type="checkbox"/> Fish & Game Region #	<input type="checkbox"/> Tahoe Regional Planning Agency
<input type="checkbox"/> Food & Agriculture, Department of	<input checked="" type="checkbox"/> Toxic Substances Control, Department of
<input type="checkbox"/> Forestry and Fire Protection, Department of	<input type="checkbox"/> Water Resources, Department of
<input type="checkbox"/> General Services, Department of	
<input type="checkbox"/> Health Services, Department of	Other: _____
<input type="checkbox"/> Housing & Community Development	Other: _____
<input type="checkbox"/> Native American Heritage Commission	

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### Local Public Review Period (to be filled in by lead agency)

Starting Date July 11, 2014 Ending Date August 11, 2014

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### Lead Agency (Complete if applicable):

Consulting Firm: <u>MIG   Hogle-Ireland</u>	Applicant: <u>Flair Spectrum, LLC</u>
Address: <u>1500 Iowa Avenue, Suite 110</u>	Address: <u>3033 West Mission Street</u>
City/State/Zip: <u>Riverside, CA 92507</u>	City/State/Zip: <u>Alhambra, CA 91803</u>
Contact: <u>Christopher Brown</u>	Phone: <u>626-457-8720</u>
Phone: <u>951-787-9222</u>	

-----

Signature of Lead Agency Representative: \_\_\_\_\_ Date: July 11, 2014

Authority cited: Section 21083, Public Resources Code. Reference: Section 21161, Public Resources Code.

# Summary Form for Electronic Document Submittal

**Form F**

Lead agencies may include 15 hardcopies of this document when submitting electronic copies of Environmental Impact Reports, Negative Declarations, Mitigated Negative Declarations, or Notices of Preparation to the State Clearinghouse (SCH). The SCH also accepts other summaries, such as EIR Executive Summaries prepared pursuant to CEQA Guidelines Section 15123. Please include one copy of the Notice of Completion Form (NOC) with your submission and attach the summary to each electronic copy of the document.

SCH #: N/A

Project Title: Flair Spectrum El Monte Specific Plan

Lead Agency: City of El Monte, Planning Division

Contact Name: Jason Mikaelian, Planning Services Manager

Email: jmikaelian@ci.el-monte.ca.us

Phone Number: 626-258-8626

Project Location: El Monte  
*City*

Los Angeles  
*County*

Project Description (Proposed actions, location, and/or consequences).

The Project will realize 500,000 square feet of new retail outlet mall use, a 220-room hotel, and 600 apartment units within an approximately 14.66-acre site, located in the western portion of El Monte, near the intersection of Flair Drive and Rio Hondo Avenue (9400 Flair Drive, El Monte, California). The Project also includes the option for up to 20 percent of the proposed retail square footage to be developed as office use (resulting in 100,000 square feet of office and 400,000 square feet of retail). The Project includes the proposed retail, hotel, residential, parking, and all facilities proposed within the Project site, on- and off-site supporting improvements, and associated discretionary actions.

City approval of the following discretionary actions would be required in order to implement the Project: (1) Certification of the EIR, (2) Approval of a Conditional Use Permit to allow hotel use, (3) Approval of a Conditional Use Permit to allow development of more than three residential units, (4) Tentative Tract Map, (5) Design Review to approve architectural materials, colors, and landscaping, (6) Development Agreement Approval of a General Plan Amendment to designate the project site as the Flair Spectrum Specific Plan Area, (7) Approval of Specific Plan.

Identify the project's significant or potentially significant effects and briefly describe any proposed mitigation measures that would reduce or avoid that effect.

Potentially significant impacts related to aesthetics, air quality, cultural resources, geology and soils, greenhouse gas emissions, hazards and hazardous materials, hydrology and water quality, land use and planning, noise, population and housing, public services, recreation, transportation and traffic, and utilities and service systems. These topics will be further analyzed in an Environmental Impact Report.

If applicable, describe any of the project's areas of controversy known to the Lead Agency, including issues raised by agencies and the public.

N/A

Provide a list of the responsible or trustee agencies for the project.

N/A



# Flair Spectrum El Monte

**EIR Scoping Meeting  
July 30, 2014**

# Purpose of the Scoping Meeting

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To determine the scope and content of the environmental information to be included in the Environmental Impact Report (EIR).

The remainder of the presentation will include a description of the proposed project followed by a description of the purpose and process of preparing and approving an EIR.

# Project Description

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- Construction of a mixed-use development consisting of:
  - 500,000 square feet 3-story retail outlet center
  - 50,000 square feet of restaurant
  - 600 residential units in two towers
  - 220-room, 12-story hotel
  - 3,700 parking spaces (below grade and in above grade structures)

# Project Description (continued)

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- Option for up to 20% of retail square footage to be office use
  - 100,000 square feet of office
  - 400,000 square feet of retail outlet
  - Other uses remain
    - 50,000 square feet of restaurant
    - 600 residential units
    - 220-room hotel

# Site Characteristics

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- South side of 10-freeway:
  - 14.66 acre property at the southeast corner of Flair Drive and Rio Hondo Avenue
  - Currently zoned Office Professional and within the Flair Park area
  - Formerly occupied by an industrial use since the 1950s, buildings recently demolished

# Site Photos



View from Rio Hondo looking northeast



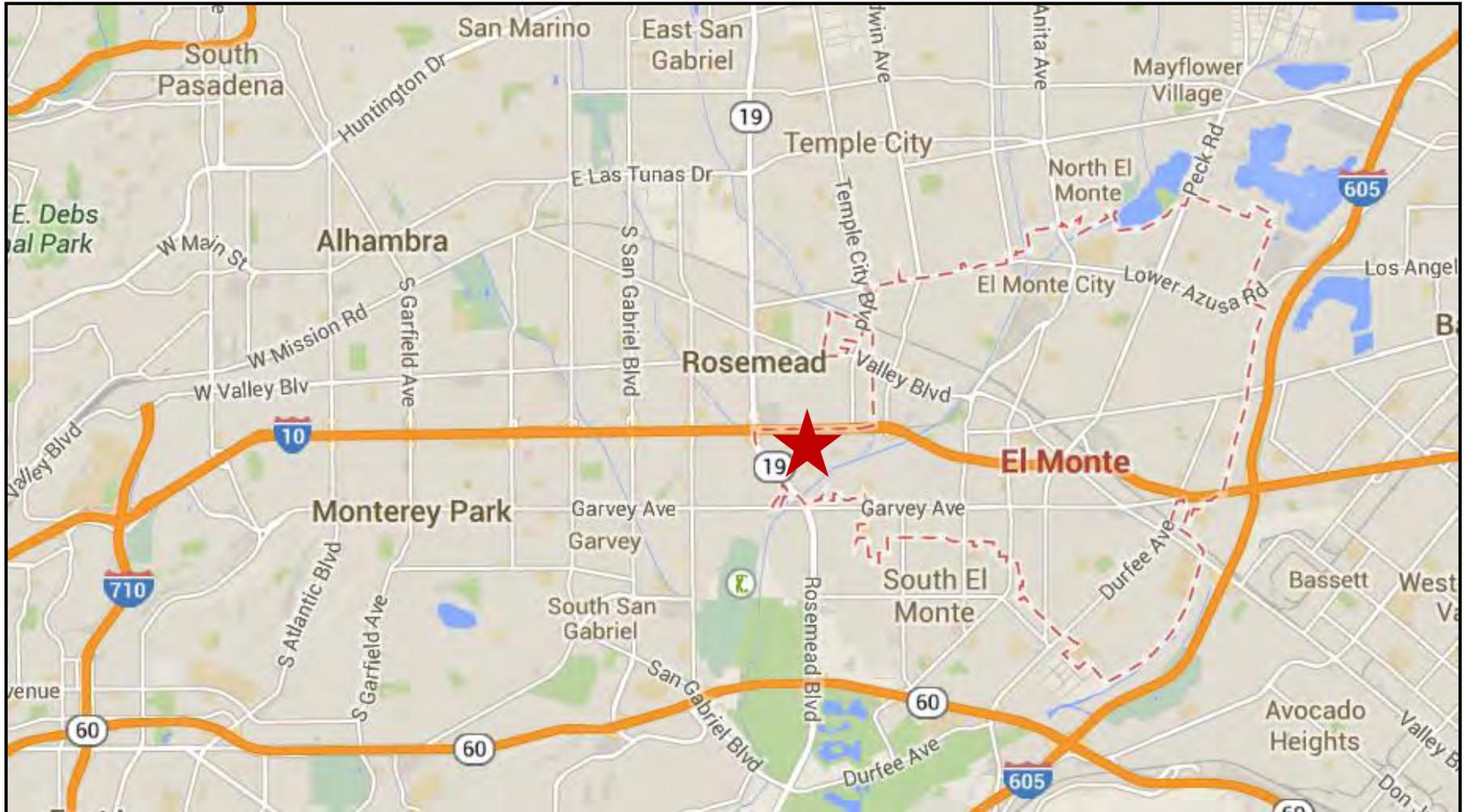
View from corner of Rio Hondo and Flair looking southeast

# Necessary Entitlements

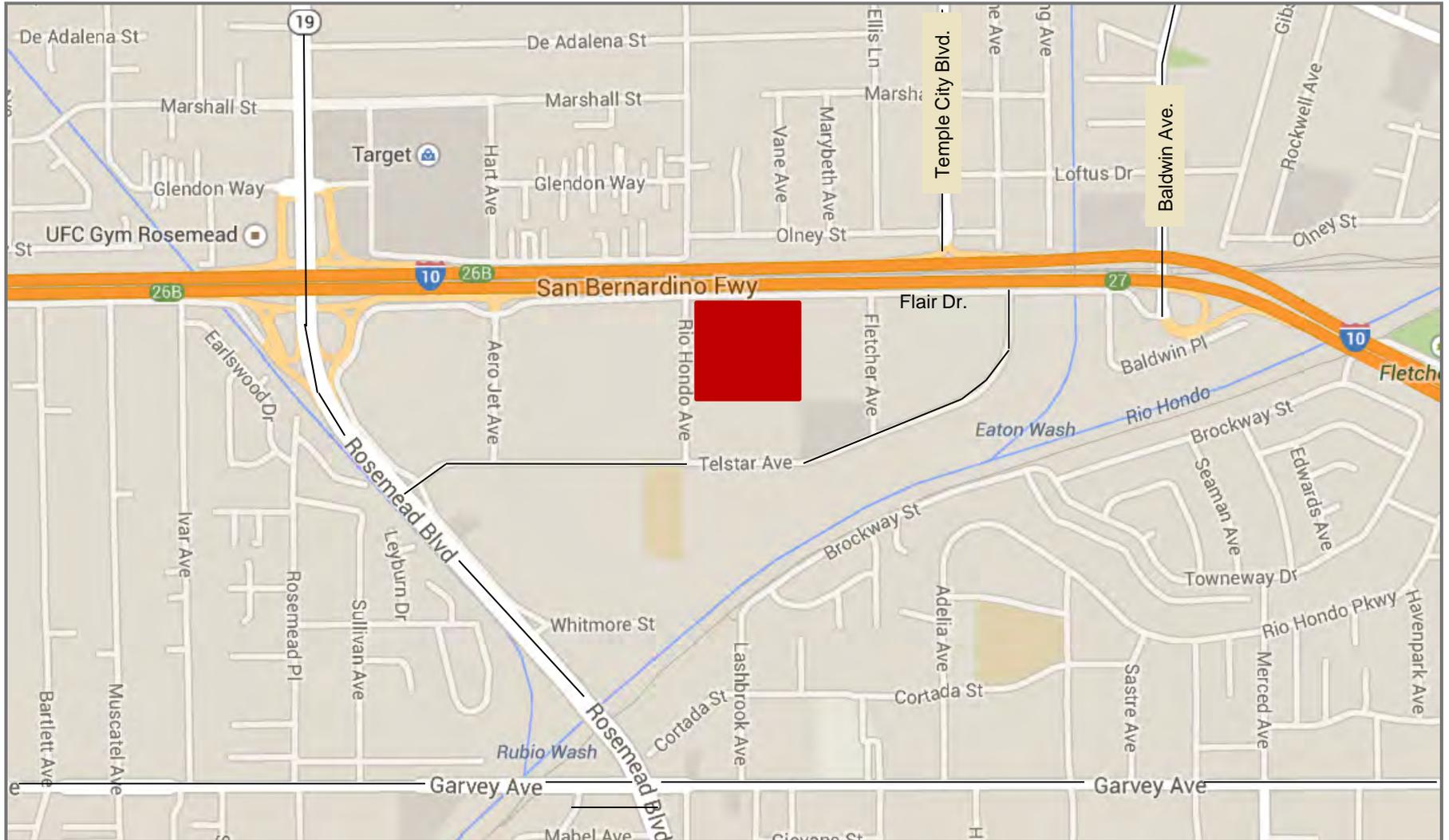
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- Project Includes:
  - General Plan Amendment
  - Creation of new Specific Plan
  - Two Conditional Use Permits (for hotel and residential)
  - Design Review
  - Vesting Tentative Tract Map
  - Development Agreement
  - Environmental Impact Report (EIR)
- Planning Commission and City Council approval

# Regional Location



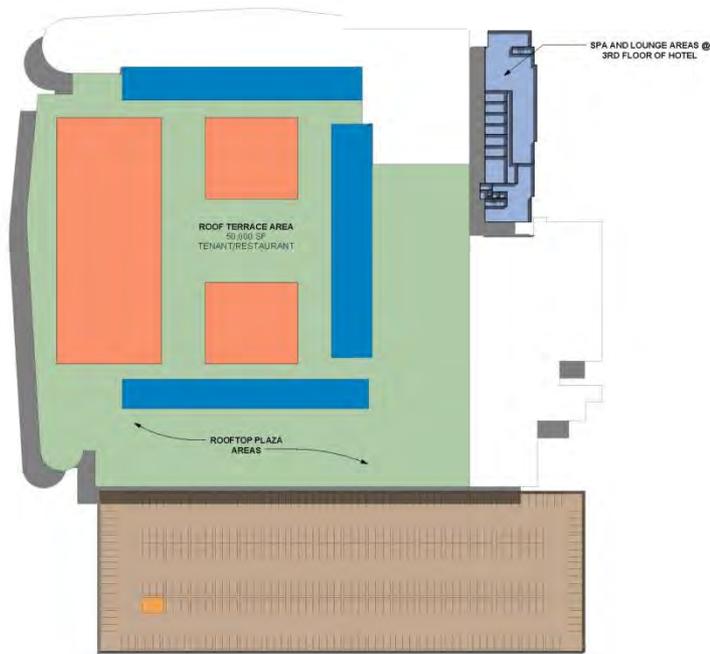
# Site Location



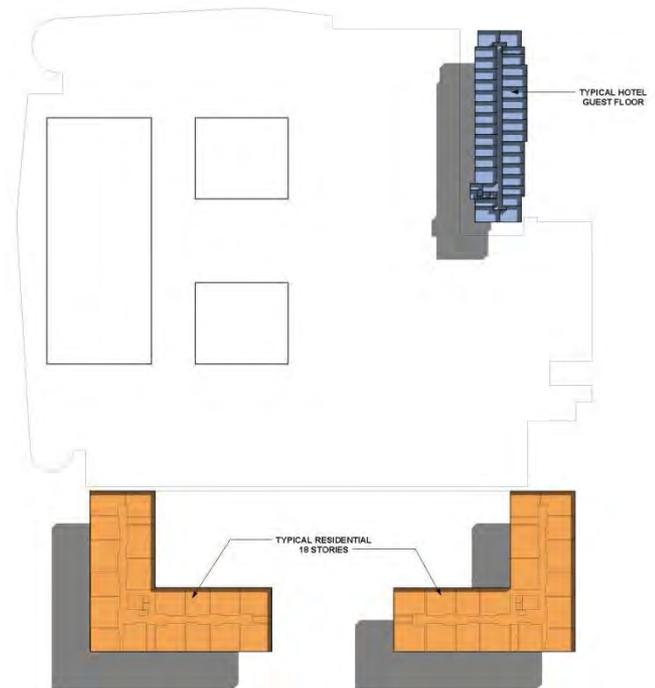
# Aerial Photo



# Site Plan



1 RETAIL LEVEL 3  
1" = 60'-0"



2 RETAIL ROOF TERRACE  
1" = 60'-0"

# Aerial Perspective



# Perspective



## KEY PLAN

1. 18-STORY RESIDENTIAL TOWERS
2. RESIDENTIAL POOL TERRACE
3. MOTOR COURT
4. ROOF TOP GARDENS
5. ROOF TERRACE RESTAURANT/DINING PLAZA
6. RETAIL ATRIUM
7. 11-STORY HOTEL
8. HOTEL MOTOR COURT DROP OFF
9. BUS DROP OFF
10. RETAIL CORNER PLAZA
11. LED VIDEO MARQUE
12. ROOF TOP POOL AND LOUNGE TERRACE
13. CONFERENCE CENTER
14. RESIDENTIAL AMENITY BUILDING
15. RETAIL THEME SIGNAGE
16. RETAIL PARKING ENTRY
17. RESTAURANTS
18. OPEN GREEN SPACE
19. SERVICE
20. HOTEL SPA TERRACE
21. PARKING

# Purpose of the EIR

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- Public disclosure of environmental consequences and considerations.
- Identification of mitigation measures and examination of alternatives to reduce or avoid potentially significant impacts.
- Planning tool to assist decision-makers in evaluating benefits/disadvantages of the proposed project.

# EIR Process and Schedule

Milestones	Projected Completion Dates
Scoping Process	July 2014
Draft EIR Distributed for Public Review & Comment (45 days)	September 2014
End of Draft EIR Public Review Period	November 2014
Responses to Comments on DEIR	November 2014
Final EIR, Mitigation Monitoring Program, Findings, Statement of Overriding Considerations	November 2014
Public Hearings/Final Certification	December 2014

# Topics Addressed in the EIR

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- Aesthetics
- Air Quality
- Cultural Resources
- Geology/Soils
- Greenhouse Gases
- Hazards/Hazardous Materials
- Hydrology/Water Quality
- Land Use/Planning
- Noise
- Population/Housing
- Public Services
- Recreation
- Transportation/Traffic
- Utilities/Service Systems

# Topics Addressed in the EIR

---

- Environmental Baseline: existing conditions at time of preparation
- Cumulative Impacts (project plus anticipated growth): evaluate individual Project contribution to broader impacts
- Growth Inducing Impacts: evaluate potential to cause substantial growth
- Alternatives to the Project including a *No Project* alternative: evaluate alternatives to the project to avoid significant unavoidable impacts
- Irreversible Long-term Environmental Changes: evaluate long-term commitment of resources

# Public Review

---

- A Notice of Preparation (NOP) has been circulated for 30-day review on July 11, 2014.
- Written comments can be submitted through August 11, 2014 to:

Jason C. Mikaelian, Planning Service Manager

City of El Monte

11333 Valley Boulevard

El Monte, California 91731

(626) 580-2064

[jmikaelian@elmonteca.gov](mailto:jmikaelian@elmonteca.gov)

**MEETING SIGN IN ROSTER**

 Meeting: Flair Spectrum

 Date: July 30, 2014

Attendee (Organization)	Address	Phone #	E-Mail Address
<i>EMM</i> Tzu Chi Foundation	9620 Flair Dr.		han_huang@tzu-chi.us
<i>EMM</i> Carol Ann	9400 Flair		
<i>*</i> Shirley Tseng	9400 Z. ELLI		
<i>*</i> Mink Thai	11331 Jalkey		
<i>EMM</i> Jesus Gomez			Jesus.Gomez@elmarteca
<i>EMM</i> Chloe Yan	9680 Flair Dr		chloey@kamenica.com
<i>EMM</i> JEFFREY SUTANTYO	9300/9350 Flair Dr.	<del>626-744-9872</del>	jeff@multi-inv.com
<i>EMM</i> JOSE RODRIGUEZ	169 N, MARET 60 AVE	626-744-9872	josere@ml6.com.com
<i>EMM</i> Nathan Herrero	-		nherrero@mye-usbhf.org.com
<i>EMM</i> Adam Zheng	4148 Cedar Ave #D EL MONTE CA 91732	626 823 3208	meladain@yahoo.com
<i>EMM</i> Willis Tseng	9400 Flair Dr.		
<i>EMM</i> NINE/ VERGZOVA	9400 FLAIR DR.		

## Flair Spectrum Scoping Meeting 7/30/2014

- Owner of 9300 Flair, 9350 Flair (East West Bank); adjacent lot to the west
  - o Question #1 - Concerned with traffic; any consideration to measure trips? Access coming from east?
    - Comments addressed with: Project is in early stages of traffic study; it'll look at access to and from site and Flair District as a whole
    - Minh (City) also commented: Caltrans owns Rosemead Blvd and 10 freeway; Caltrans will look at traffic as well; comments will be noted
  - o Question #2 – Target date to break ground?
    - Question answered by City
  - o Question #3 – In regards to the 20% office space, is it capped? Or if the market changes, will that change as well?
    - City: would be “in a sense” capped; applicant does not anticipate any changes; changes will occur if project isn't approved
  - o Question #4 – ground contamination?
    - MIG: working with County and will be remediated before construction starts; will be addressed in EIR
- Hanh: representing a charitable foundation; office located next to Cathay Bank
  - o Question #1 – Want to receive information about project. What is the timeframe of project?
    - Question answered by PPT and Olivia
- Owner of 9680 Flair
  - o Question #1 – Public transit; the only bus stop in the area is located in front of their building, concerned with the attraction of people and access to buses
    - Question will be addressed in EIR
  - o Question #2 – Will there be enough parking? Will project add to the demand for on street parking?
    - Parking is addressed in EIR
    - East West Bank Owner offers his many acres of parking lot for staging area during construction.
  - o Question #3 – Safety; negative influence in the area because it introduces strangers with the outlet, hotel, and new apartments
    - Police protection will be addressed in EIR
  - o Question #4 – Air Quality; will project have negative impact?
    - City: yes
  - o Question #5 – Construction schedule?
    - City: 18 months for hotel and commercial, 2 years for residential; related to AQ so will be addressed in EIR
  - o Question #6 – marketing study? Most Americans don't want to purchase high-rise apartments
    - City: applicant will do economic study before EIR is published

---

**From:** Angela Chang [mailto:[Angela.Chang@cathaybank.com](mailto:Angela.Chang@cathaybank.com)]  
**Sent:** Monday, August 11, 2014 5:34 PM  
**To:** Shannon Kimball  
**Subject:** Flair Spectrum El Monte

Dear Ms. Kimball:

Thank you for taking my call. It was nice talking to you and understand the project a little more.

Regarding Flair/Baldwin: An accident is waiting to happen or have happened when one wishes to left turn at Flair/Baldwin for those dare to try. Otherwise, cars just are sitting, watching and freeze.

Regarding Telstar/Rosemead: It is impossible to get into and get moving during peak hours.

Regarding Flair: I drive about 30 mph on this 25 mph road and there were always cars behind me. No one observes the speed limit.

Overall, it's already a nightmare to get in out of Flair Business Park. My major concern is the traffic problem and neither CHP nor the city has done anything to ease the ingress and egress problem.

I can't imagine how City is to manage the traffic problem with Flair Specturm El Monte project coming to Flair Business Park.

Thank you for your attention.

Best Regards.

Angela Chang

Cathay Bank

9650 Flair Drive

El Monte, CA 91731

Mail Code: EL-1-G



# COUNTY OF LOS ANGELES

## FIRE DEPARTMENT

1320 NORTH EASTERN AVENUE  
LOS ANGELES, CALIFORNIA 90063-3294

DARYL L. OSBY  
FIRE CHIEF  
FORESTER & FIRE WARDEN

August 7, 2014

Jason C. Mikaelian, Planning Service Manager  
City of El Monte  
City Hall West  
11333 Valley Boulevard  
El Monte, CA 91731

Dear Mr. Mikaelian:

**PREPARATION OF AN ENVIRONMENTAL IMPACT REPORT, "FLAIR SPECTRUM EL MONTE PROJECT AND SPECIFIC PLAN," CONSTRUCTION OF A MIXED-USE DEVELOPMENT CONSISTS OF 500,00 SQUARE FEET OF RETAIL, RESTAURANT, OUTLET MALL, 220-ROOM HOTEL, AND 600 RESIDENTIAL UNITS, 9400 FLAIR DRIVE, EL MONTE (FFER #201400119)**

The Preparation of an Environmental Impact Report has been reviewed by the Planning Division, Land Development Unit, Forestry Division, and Health Hazardous Materials Division of the County of Los Angeles Fire Department. The following are their comments:

### PLANNING DIVISION:

#### 1. 4.14 - Public Services

- a) Fire protection?

Paragraph one under this section should be corrected as follows:

- a) **Potentially significant impact.** The Los Angeles County Fire Department (LACFD) East Operations Bureau Division IX provides fire protection and emergency medical response services in the City of

SERVING THE UNINCORPORATED AREAS OF LOS ANGELES COUNTY AND THE CITIES OF:

AGOURA HILLS  
ARTESIA  
AZUSA  
BALDWIN PARK  
BELL  
BELL GARDENS  
BELLFLOWER  
BRADBURY

CALABASAS  
CARSON  
CERRITOS  
CLAREMONT  
COMMERCE  
COVINA  
CUDAHY

DIAMOND BAR  
DUARTE  
EL MONTE  
GARDENA  
GLENDDORA  
HAWAIIAN GARDENS  
HAWTHORNE

HIDDEN HILLS  
HUNTINGTON PARK  
INDUSTRY  
INGLEWOOD  
IRWINDALE  
LA CANADA FLINTRIDGE  
LA HABRA

LA MIRADA  
LA PUENTE  
LAKEWOOD  
LANCASTER  
LAWNDALE  
LOMITA  
LYNWOOD

MALIBU  
MAYWOOD  
NORWALK  
PALMDALE  
PALOS VERDES ESTATES  
PARAMOUNT  
PICO RIVERA

POMONA  
RANCHO PALOS VERDES  
ROLLING HILLS  
ROLLING HILLS ESTATES  
ROSEMEAD  
SAN DIMAS  
SANTA CLARITA

SIGNAL HILL  
SOUTH EL MONTE  
SOUTH GATE  
TEMPLE CITY  
WALNUT  
WEST HOLLYWOOD  
WESTLAKE VILLAGE  
WHITTIER

El Monte. The project site is located approximately two miles west of the Station 166 located at 3615 Santa Anita Avenue. According to the ~~General Plan EIR~~ LACFD, Station 166 is equipped with one quint (combination fire engine and ladder truck), ~~one paramedic squad~~, one battalion, and one utility truck and is staffed with ~~six~~ four firefighters daily.

We will reserve any additional comments for the Draft EIR.

**LAND DEVELOPMENT UNIT:**

1. On July 17, 2014, representatives from the Land Development Unit and Fire Prevention Engineering meet with City of El Monte officials to discuss the "Flair Spectrum El Monte Project and Specific Plan." It was determined that more information regarding this project is required before specific Fire & Life Safety conditions can be addressed. The following information will assist the Land Development Unit and Fire Prevention Engineering in the review of the project: provide the height of the podium and all other structures; provide the number of floors of the subterranean parking and above grade parking along with the buildings; a presentation indicating compliance to meet the Fire Code requirement for access to within 150 feet of all exterior walls, and potential mitigation for not meeting the 150-foot requirement; the high-rise access and heli-spot.
2. The development of this project must comply with all applicable code and ordinance requirements for construction, access, water mains, fire flows and fire hydrants.
3. The proposed development may necessitate multiple ingress/egress access for the circulation of traffic, and emergency response issues.
4. Every building constructed shall be accessible to Fire Department apparatus by way of access roadways, with an all-weather surface of not less than the prescribed width. The roadway shall be extended to within 150 feet of all portions of the exterior walls when measured by an unobstructed route around the exterior of the building.
5. All on-site driveways/roadways shall provide a minimum unobstructed width of 28 feet, clear-to-sky. The on-site driveway is to be within 150 feet of all portions of the exterior walls of the first story of any building. The centerline of the access driveway shall be located parallel to and within 30 feet of an exterior wall on one side of the proposed structure.



# COUNTY OF LOS ANGELES

## FIRE DEPARTMENT

1320 NORTH EASTERN AVENUE  
LOS ANGELES, CALIFORNIA 90063-3294

DARYL L. OSBY  
FIRE CHIEF  
FORESTER & FIRE WARDEN

August 7, 2014

Jason C. Mikaelian, Planning Service Manager  
City of El Monte  
City Hall West  
11333 Valley Boulevard  
El Monte, CA 91731

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SERVING THE UNINCORPORATED AREAS OF LOS ANGELES COUNTY AND THE CITIES OF:

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CUDAHY

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EL MONTE  
GARDENA  
GLEN DORA  
HAWAIIAN GARDENS  
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INGLEWOOD  
IRWINDALE  
LA CANADA FLINTRIDGE  
LA HABRA

LA MIRADA  
LA PUENTE  
LAKEWOOD  
LANCASTER  
LAWNDALE  
LOMITA  
LYNWOOD

MALIBU  
MAYWOOD  
NORWALK  
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PALOS VERDES ESTATES  
PARAMOUNT  
PICO RIVERA

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Jason C. Mikaelian

August 7, 2014

Page 3

6. For streets or driveways with parking restrictions, the entrance to the street/driveway and intermittent spacing distances of 150 feet shall be posted with Fire Department approved signs stating "NO PARKING - FIRE LANE" in three-inch high letters. Driveway labeling is necessary to ensure access for Fire Department use.
7. Turning radii shall not be less than 32 feet. This measurement shall be determined at the centerline of the road. A Fire Department approved turning area shall be provided for all driveways exceeding 150 feet in-length and at the end of all cul-de-sacs.
8. All access devices and gates shall comply with California Code of Regulations, Title 19, Articles 3.05 and 3.16.
9. All access devices and gates shall meet the following requirements:
  - a) Any single gated opening used for ingress and egress shall be a minimum of 26 feet in-width, clear-to-sky.
  - b) Any divided gate opening (when each gate is used for a single direction of travel i.e., ingress or egress) shall be a minimum width of 20 feet clear-to-sky.
  - c) Gates and/or control devices shall be positioned a minimum of 50 feet from a public right-of-way, and shall be provided with a turnaround having a minimum of 32 feet of turning radius. If an intercom system is used, the 50 feet shall be measured from the right-of-way to the intercom control device.
  - d) All limited access devices shall be of a type approved by the Fire Department.
  - e) Gate plans shall be submitted to the Fire Department, prior to installation. These plans shall show all locations, widths and details of the proposed gates.
10. All proposals for traffic calming measures (speed humps/bumps/cushions, traffic circles, roundabouts, etc.) shall be submitted to the Fire Department for review, prior to implementation.

11. The development may require fire flows up to 5,000 gallons per minute at 20 per square inch residual pressure for up to a five-hour duration. Final fire flows will be based on the size of buildings, its relationship to other structures, property lines, and types of construction used.
12. Fire hydrant spacing shall be 300 feet and shall meet the following requirements:
  - a) No portion of lot frontage shall be more than 200 feet via vehicular access from a public fire hydrant.
  - b) No portion of a building shall exceed 400 feet via vehicular access from a properly spaced public fire hydrant.
  - c) Additional hydrants will be required if hydrant spacing exceeds specified distances.
  - d) When cul-de-sac depth exceeds 200 feet on a commercial street, hydrants shall be required at the corner and mid-block.
  - e) A cul-de-sac shall not be more than 500 feet in length, when serving land zoned for commercial use.
13. An automatic fire sprinkler system is required in all residential units and in most commercial occupancies.
14. Should any questions regarding the Land Development Unit's comments, please contact Janna Masi or Claudia Sozia at (323) 890-4243.

**FORESTRY DIVISION – OTHER ENVIRONMENTAL CONCERNS:**

1. The statutory responsibilities of the County of Los Angeles Fire Department, Forestry Division include erosion control, watershed management, rare and endangered species, vegetation, fuel modification for Very High Fire Hazard Severity Zones or Fire Zone 4, archeological and cultural resources, and the County Oak Tree Ordinance. Potential impacts in these areas should be addressed in the Draft Environmental Impact Report.

**HEALTH HAZARDOUS MATERIALS DIVISION:**

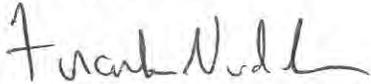
1. The subject site is currently under this Department oversight to assess and mitigate contamination as a result of former operations. An approval and/or a "No Further

Jason C. Mikaelian  
August 7, 2014  
Page 5

Action" letter from this Department must be required prior to issuance of a grading permit.

If you have any additional questions, please contact this office at (323) 890-4330.

Very truly yours,

A handwritten signature in black ink, appearing to read "Frank Vidales". The signature is written in a cursive style with a long horizontal flourish at the end.

FRANK VIDALES, CHIEF, FORESTRY DIVISION  
PREVENTION SERVICES BUREAU

FV:jl



# COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

1955 Workman Mill Road, Whittier, CA 90601-1400  
Mailing Address: P.O. Box 4998, Whittier, CA 90607-4998  
Telephone: (562) 699-7411, FAX: (562) 699-5422  
[www.lacsd.org](http://www.lacsd.org)

GRACE ROBINSON HYDE  
*Chief Engineer and General Manager*

August 8, 2014

Ref File No.: 3031591

Mr. Jason C. Mikaelian  
Planning Service Manager  
City Hall West  
City of El Monte  
11333 Valley Boulevard  
El Monte, CA 91731-3293

Dear Mr. Mikaelian:

## **Flair Spectrum El Monte Project and Specific Plan**

The County Sanitation Districts of Los Angeles County (Districts) received a Notice of Preparation of a Draft Environmental Impact Report for the subject project on July 11, 2014. The proposed development is located within the jurisdictional boundaries of District No. 15. We offer the following comments regarding sewerage service:

1. The Districts maintain sewerage facilities within the project area that may be affected by the proposed project. Approval to construct improvements within a Districts' sewer easement and/or over or near a Districts' sewer is required before construction may begin. For a copy of the Districts' buildover procedures and requirements go to [www.lacsd.org](http://www.lacsd.org), Wastewater & Sewer Systems, click on Will Serve Program, and click on the Buildover Procedures and Requirements link. For more specific information regarding the buildover procedure, please contact Mr. Ed Stewart at extension 2766.
2. The wastewater flow originating from the proposed project will discharge to a local sewer line, which is not maintained by the Districts, for conveyance to the Districts' Joint Outfall B Unit 3A Trunk Sewer, located in Rio Hondo Avenue north of Telstar Avenue. This 36-inch diameter trunk sewer has a design capacity of 32.7 million gallons per day (mgd) and conveyed a peak flow of 1.7 mgd when last measured in 2014.
3. The wastewater generated by the proposed project will be treated at the Whittier Narrows Water Reclamation Plant (WRP) located near the City of South El Monte, which has a design capacity of 15 mgd and currently processes an average flow of 8.3 mgd, or at the Los Coyotes WRP located in the City of Cerritos, which has a design capacity of 37.5 mgd and currently processes an average flow of 21.7 mgd.
4. The expected increase in average wastewater flow from the project site is 196,388 gallons per day. For a copy of the Districts' average wastewater generation factors, go to [www.lacsd.org](http://www.lacsd.org),

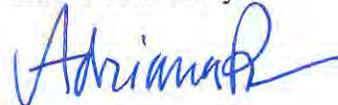
Wastewater & Sewer Systems, click on Will Serve Program, and click on the Table 1, Loadings for Each Class of Land Use link.

5. The Districts are empowered by the California Health and Safety Code to charge a fee for the privilege of connecting (directly or indirectly) to the Districts' Sewerage System for increasing the strength or quantity of wastewater attributable to a particular parcel or operation already connected. This connection fee is a capital facilities fee that is imposed in an amount sufficient to construct an incremental expansion of the Sewerage System to accommodate the proposed project. Payment of a connection fee will be required before a permit to connect to the sewer is issued. For more information and a copy of the Connection Fee Information Sheet, go to [www.lacsd.org](http://www.lacsd.org), Wastewater & Sewer Systems, click on Will Serve Program, and search for the appropriate link. For more specific information regarding the connection fee application procedure and fees, please contact the Connection Fee Counter at extension 2727.
  
6. In order for the Districts to conform to the requirements of the Federal Clean Air Act (CAA), the design capacities of the Districts' wastewater treatment facilities are based on the regional growth forecast adopted by the Southern California Association of Governments (SCAG). Specific policies included in the development of the SCAG regional growth forecast are incorporated into clean air plans, which are prepared by the South Coast and Antelope Valley Air Quality Management Districts in order to improve air quality in the South Coast and Mojave Desert Air Basins as mandated by the CCA. All expansions of Districts' facilities must be sized and service phased in a manner that will be consistent with the SCAG regional growth forecast for the counties of Los Angeles, Orange, San Bernardino, Riverside, Ventura, and Imperial. The available capacity of the Districts' treatment facilities will, therefore, be limited to levels associated with the approved growth identified by SCAG. As such, this letter does not constitute a guarantee of wastewater service, but is to advise you that the Districts intend to provide this service up to the levels that are legally permitted and to inform you of the currently existing capacity and any proposed expansion of the Districts' facilities.

If you have any questions, please contact the undersigned at (562) 908-4288, extension 2717.

Very truly yours,

Grace Robinson Hyde



Adriana Raza  
Customer Service Specialist  
Facilities Planning Department

AR:ar

cc: E. Stewart  
M. Tremblay  
J. Ganz



on/off ramps within 1 mile radius including Rosemead Blvd. (SR-164), Temple City Blvd. and Baldwin Ave. Caltrans has concerns about queuing of vehicles using off-ramps that will back into the mainline through lanes. It is recommended that the City determine whether project-related plus cumulative traffic is expected to cause long queues on the on and off-ramps. We would like to meet with the traffic consultant to identify study locations on the State facilities before preparing the Environmental Impact Report (EIR). An analysis of the off-ramps in the project vicinity should utilize the Highway Capacity Manual (HCM) 85<sup>th</sup> percentile queuing methodology with the actual signal timing at the ramps' termini.

2. Consistency of project travel modeling with other regional and local modeling forecasts and with travel data. The Caltrans may use indices to verify the results and any differences or inconsistencies must be thoroughly explained.
3. Analysis of ADT, AM and PM peak-hour volumes for both the existing and future conditions in the affected area. Utilization of transit lines and vehicles, and of all facilities, should be realistically estimated. Future conditions should include build-out of all projects and any plan-horizon years. (see next item)
4. Inclusion of all appropriate traffic volumes. Analysis should include existing traffic, traffic generated by the project, cumulative traffic generated from all specific approved developments in the area, and traffic growth other than from the project and developments.
5. Discussion of mitigation measures appropriate to alleviate anticipated traffic impacts. These mitigation discussions should include, but not be limited to, the following:
  - Description of Transportation Infrastructure Improvements
  - Financial Costs, Funding Sources and Financing
  - Sequence and Scheduling Considerations
  - Implementation Responsibilities, Controls, and Monitoring

Any mitigation involving transit or Transportation Demand Management (TDM) should be justified and the results conservatively estimated. Improvements involving dedication of land or physical construction may be favorably considered.

6. Caltrans may accept fair share contributions toward pre-established or future improvements on the State Highway System. Please use the following ratio when estimating project equitable share responsibility: additional traffic volume due to project implementation is divided by the total increase in the traffic volume (see Appendix "B" of the Guide).

Mr. Jason Mikaelian  
July 29, 2014  
Page 3 of 3

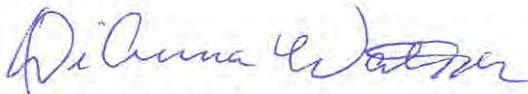
7. Please note that for purposes of determining project share of costs, the number of trips from the project on each traveling segment or element is estimated in the context of forecasted traffic volumes, which include build-out of all approved and not yet approved projects and other sources of growth. Analytical methods such as select-zone travel forecast modeling should be used.
8. Please be reminded that as the responsible agency under CEQA, the Caltrans has authority to determine the required freeway analysis for this project and is responsible for obtaining measures that will off-set project vehicle trip generation that worsens State Highway facilities. CEQA allows the Caltrans to develop criteria for evaluating impacts on the facilities that it manages. In addition, the County CMP standards states that the Caltrans should be consulted for the analysis of State facilities. State Routes mentioned in item #1 should be analyzed, preferably using methods suggested in the Caltrans's Traffic Impact Study Guide. To help determine the appropriate scope, we suggest that a select zone model run may be performed. We welcome the opportunity to provide consultation regarding the Caltrans's preferred scope and methods of analysis.

We look forward to reviewing the traffic study and expect to receive a copy from the State Clearinghouse when the DEIR is completed. Should you wish to expedite the review process or receive early feedback from the Caltrans please feel free to send a copy of the DEIR directly to our office.

As discussed in a telephone conversation on July 28, 2014 between Mr. Minh Thai, City's Assistant Economic Development Director and Mr. Alan Lin, Caltrans Project Coordinator, we would like to, again, extend an invitation to meet with the City and the traffic consultant early in the process to discuss potential traffic impacts to the State facilities and possible mitigation measures prior to the preparation of the EIR.

If you have any questions, please feel free to contact Alan Lin the project coordinator at (213) 897-8391 and refer to IGR/CEQA No. 140732AL.

Sincerely,



DIANNA WATSON  
IGR/CEQA Branch Chief  
Community Planning & LD IGR Review

cc: Scott Morgan, State Clearinghouse

August 7, 2014

Jason Mikaelian  
City of El Monte  
Economic Development Department  
11333 Valley Boulevard  
El Monte, CA, 91731

**INITIAL STUDY/ NOTICE OF PREPARATION (IS/NOP)  
FLAIR SPECTRUM PROJECT  
9400 FLAIR DRIVE  
CITY OF EL MONTE**

**LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS COMMENTS**

We completed our review of the IS/NOP for the proposed project for a mixed-use building on an approximately 14.66-acre site located at 9400 Flair Drive in the City of El Monte. The project is for the construction of a mixed-use development with 500,000 square feet of retail, 50,000 square feet of restaurant for an outlet mall, a 220-room hotel, and 600 residential units. The Project also includes the option for up to 20 percent of the proposed retail square footage to be developed as office use (resulting in 100,000 square feet of office and 400,000 square feet of retail). Parking would be provided in subterranean and above-grade parking structures. The project will require approximately a total of 25,361 cubic yard of export.

The following are County of Los Angeles, Department of Public Works' comments for your consideration and relate to the environmental document only:

**Hydrology/ Water Quality**

1. The Los Angeles County Flood Control District (LACFCD) owns and maintains Rio Hondo Avenue (MTD 0127) and Flair Drive- (BL 6801-B) Drainage system (Drawing Number PF 520279 and 364-6801-D2). Any impacts to LACFCD system including any proposed buildings/structures within the flood control easement and/or over the drainage facility should be discussed in the EIR. A construction permit from the LACFCD prior to construction is required. Plans must be submitted to the Los Angeles County Department of Public Works for review and approval prior to permit issuance. This should specifically be noted in the environmental document.

Jason C. Mikaelian  
August 7, 2014  
Page 2

2. An approved Hydrology Report from LACFCD should be included as part of the EIR for any impacts to LACFCD facilities. The Hydrology should determine extent of drainage impacts (if any) to LACFCD drainage facilities and provide mitigations acceptable to LACDPW. The analysis should address increases in runoff, water quality treatment, any change in drainage patterns, and the capacity of proposed and existing storm drain facilities.
3. A Water Quality Plan for any impacts to LACFCD facilities should be made a part of the Hydrology Report and be included in the EIR.

If you have any questions regarding the Hydrology and Water Quality comments, please contact Mr. Toan Duong of Land Development Division at (626) 458-4921 or [tduong@dpw.lacounty.gov](mailto:tduong@dpw.lacounty.gov). For submittal and permit fees associated with connections to LACFCD facilities, please contact Land Development Division, Permits Section at (626) 458-3129.

If you have any other questions or require additional information, please contact Teni Mardirosian of Land Development Division at (626) 458-4910 or [tmardirosian@dpw.lacounty.gov](mailto:tmardirosian@dpw.lacounty.gov).

TM:

\\PW01\PWPublic\ldpub\SUBPCHECK\Plan Checking Files\Zoning Permits\Projects submitted by Other Agencies\9400 Flair Drive - Flair Spectrum El Monte\2014-07-16 Submittal\9400 Flair Drive.docx



**Metro**

Los Angeles County  
Metropolitan Transportation Authority

One Gateway Plaza  
Los Angeles, CA 90012-2952

213.922.2000 Tel  
metro.net

August 1, 2014

Jason C. Mikaelian  
Planning Service Manager  
City of El Monte-City Hall West  
11333 Valley Boulevard  
El Monte, CA 91731

FLAIR

**RE: "Fair Spectrum El Monte" Project and Specific Plan**

Dear Mr. Mikaelian,

Thank you for the opportunity to comment on the proposed "Fair Spectrum El Monte" Project. This letter conveys recommendations from the Los Angeles County Metropolitan Transportation Authority (LACMTA) in regards to our facilities that may be affected by the proposed project.

Metro bus lines operate on Flair Drive, adjacent to the proposed project. Although the project is not expected to result in any long-term impacts on transit, the developer should be aware of the bus services that are present. Metro Bus Operations Control Special Events Coordinator should be contacted at 213-922-4632 regarding construction activities that may impact Metro bus lines. (For closures that last more than six months, Metro's Stops and Zones Department will also need to be notified at 213-922-5063). Other municipal bus may also be impacted and should be included in construction outreach efforts.

Beyond impacts to Metro facilities and operations, LACMTA must also notify the applicant of state requirements. A Transportation Impact Analysis (TIA), with roadway and transit components, is required under the State of California Congestion Management Program (CMP) statute. The CMP TIA Guidelines are published in the "2010 Congestion Management Program for Los Angeles County", Appendix D (attached). The geographic area examined in the TIA must include the following, at a minimum:

1. All CMP arterial monitoring intersections, including monitored freeway on/off-ramp intersections, where the proposed project will add 50 or more trips during either the a.m. or p.m. weekday peak hour (of adjacent street traffic).
2. If CMP arterial segments are being analyzed rather than intersections, the study area must include all segments where the proposed project will add 50 or more peak hour trips (total of both directions). Within the study area, the TIA must analyze at least one segment between monitored CMP intersections.
3. Mainline freeway-monitoring locations where the project will add 150 or more trips, in either direction, during either the a.m. or p.m. weekday peak hour.
4. Caltrans must also be consulted through the NOP process to identify other specific locations to be analyzed on the state highway system. Please note that the project is adjacent to the I-10 freeway.

The CMP TIA requirement also contains two separate impact studies covering roadways and transit, as outlined in Sections D.8.1 – D.9.4. If the TIA identifies no facilities for study based on the criteria above, no further traffic analysis is required. However, projects must still consider transit impacts. For all CMP TIA requirements please see the attached guidelines.

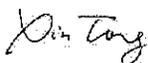
It is noted that the northern boundary of the project site is proximate to an LACMTA-owned Railroad Right-of-Way (ROW). This ROW is used by Metrolink for commuter and intercity passenger rail, as well as Union Pacific Railroad freight rail. The following concerns related to the project's proximity to the ROW should be addressed:

1. The project sponsor is advised that rail service operates in both directions and that trains may operate, in and out of revenue service, 24 hours a day, seven days a week, in the ROW adjacent to the proposed project.
2. Considering the proximity of the proposed project to the railroad ROW, trains will produce noise, vibration and visual impacts. A recorded Noise Easement Deed in favor of LACMTA is required, a form of which is attached. The easement recorded in the Deed will extend to successors and tenants, as well. In addition, any noise mitigation required for the project will be borne by the developers of the project and not LACMTA or the operating railroads.

If you have any questions regarding this response, please contact Xin Tong at 213-922-8804 or by email at tongx@metro.net. LACMTA looks forward to reviewing the Draft EIR. Please send it to the following address:

LACMTA Development Review  
One Gateway Plaza MS 99-23-4  
Los Angeles, CA 90012-2952

Sincerely,



Xin Tong  
Development Review Coordinator, Countywide Planning

Attachment: CMP Appendix D: Guidelines for CMP Transportation Impact Analysis  
Noise Easement Deed

# GUIDELINES FOR CMP TRANSPORTATION IMPACT ANALYSIS

*Important Notice to User: This section provides detailed travel statistics for the Los Angeles area which will be updated on an ongoing basis. Updates will be distributed to all local jurisdictions when available. In order to ensure that impact analyses reflect the best available information, lead agencies may also contact MTA at the time of study initiation. Please contact MTA staff to request the most recent release of "Baseline Travel Data for CMP TIAs."*

## D.1 OBJECTIVE OF GUIDELINES

The following guidelines are intended to assist local agencies in evaluating impacts of land use decisions on the Congestion Management Program (CMP) system, through preparation of a regional transportation impact analysis (TIA). The following are the basic objectives of these guidelines:

- Promote consistency in the studies conducted by different jurisdictions, while maintaining flexibility for the variety of project types which could be affected by these guidelines.
- Establish procedures which can be implemented within existing project review processes and without ongoing review by MTA.
- Provide guidelines which can be implemented immediately, with the full intention of subsequent review and possible revision.

These guidelines are based on specific requirements of the Congestion Management Program, and travel data sources available specifically for Los Angeles County. References are listed in Section D.10 which provide additional information on possible methodologies and available resources for conducting TIAs.

## D.2 GENERAL PROVISIONS

Exhibit D-7 provides the model resolution that local jurisdictions adopted containing CMP TIA procedures in 1993. TIA requirements should be fulfilled within the existing environmental review process, extending local traffic impact studies to include impacts to the regional system. In order to monitor activities affected by these requirements, Notices of Preparation (NOPs) must be submitted to MTA as a responsible agency. Formal MTA approval of individual TIAs is not required.

The following sections describe CMP TIA requirements in detail. In general, the competing objectives of consistency & flexibility have been addressed by specifying standard, or minimum, requirements and requiring documentation when a TIA varies from these standards.

### D.3 PROJECTS SUBJECT TO ANALYSIS

In general a CMP TIA is required for all projects required to prepare an Environmental Impact Report (EIR) based on local determination. A TIA is not required if the lead agency for the EIR finds that traffic is not a significant issue, and does not require local or regional traffic impact analysis in the EIR. Please refer to Chapter 5 for more detailed information.

CMP TIA guidelines, particularly intersection analyses, are largely geared toward analysis of projects where land use types and design details are known. Where likely land uses are not defined (such as where project descriptions are limited to zoning designation and parcel size with no information on access location), the level of detail in the TIA may be adjusted accordingly. This may apply, for example, to some redevelopment areas and citywide general plans, or community level specific plans. In such cases, where project definition is insufficient for meaningful intersection level of service analysis, CMP arterial segment analysis may substitute for intersection analysis.

### D.4 STUDY AREA

The geographic area examined in the TIA must include the following, at a minimum:

- All CMP arterial monitoring intersections, including monitored freeway on- or off-ramp intersections, where the proposed project will add 50 or more trips during either the AM or PM weekday peak hours (of adjacent street traffic).
- If CMP arterial segments are being analyzed rather than intersections (see Section D.3), the study area must include all segments where the proposed project will add 50 or more peak hour trips (total of both directions). Within the study area, the TIA must analyze at least one segment between monitored CMP intersections.
- Mainline freeway monitoring locations where the project will add 150 or more trips, in either direction, during either the AM or PM weekday peak hours.
- Caltrans must also be consulted through the Notice of Preparation (NOP) process to identify other specific locations to be analyzed on the state highway system.

**If the TIA identifies no facilities for study based on these criteria, no further traffic analysis is required. However, projects must still consider transit impacts (Section D.8.4).**

### D.5 BACKGROUND TRAFFIC CONDITIONS

The following sections describe the procedures for documenting and estimating background, or non-project related traffic conditions. Note that for the purpose of a TIA, these background estimates must include traffic from all sources without regard to the exemptions specified in CMP statute (e.g., traffic generated by the provision of low and very low income housing, or trips originating outside Los Angeles County. Refer to Chapter 5, Section 5.2.3 for a complete list of exempted projects).

**D.5.1 Existing Traffic Conditions.** Existing traffic volumes and levels of service (LOS) on the CMP highway system within the study area must be documented. Traffic counts must

be less than one year old at the time the study is initiated, and collected in accordance with CMP highway monitoring requirements (see Appendix A). Section D.8.1 describes TIA LOS calculation requirements in greater detail. Freeway traffic volume and LOS data provided by Caltrans is also provided in Appendix A.

**D.5.2 Selection of Horizon Year and Background Traffic Growth.** Horizon year(s) selection is left to the lead agency, based on individual characteristics of the project being analyzed. In general, the horizon year should reflect a realistic estimate of the project completion date. For large developments phased over several years, review of intermediate milestones prior to buildout should also be considered.

At a minimum, horizon year background traffic growth estimates must use the generalized growth factors shown in Exhibit D-1. These growth factors are based on regional modeling efforts, and estimate the general effect of cumulative development and other socioeconomic changes on traffic throughout the region. Beyond this minimum, selection among the various methodologies available to estimate horizon year background traffic in greater detail is left to the lead agency. Suggested approaches include consultation with the jurisdiction in which the intersection under study is located, in order to obtain more detailed traffic estimates based on ongoing development in the vicinity.

## D.6 PROPOSED PROJECT TRAFFIC GENERATION

Traffic generation estimates must conform to the procedures of the current edition of Trip Generation, by the Institute of Transportation Engineers (ITE). If an alternative methodology is used, the basis for this methodology must be fully documented.

Increases in site traffic generation may be reduced for existing land uses to be removed, if the existing use was operating during the year the traffic counts were collected. Current traffic generation should be substantiated by actual driveway counts; however, if infeasible, traffic may be estimated based on a methodology consistent with that used for the proposed use.

Regional transportation impact analysis also requires consideration of trip lengths. Total site traffic generation must therefore be divided into work and non-work-related trip purposes in order to reflect observed trip length differences. Exhibit D-2 provides factors which indicate trip purpose breakdowns for various land use types.

For lead agencies who also participate in CMP highway monitoring, it is recommended that any traffic counts on CMP facilities needed to prepare the TIA should be done in the manner outlined in Chapter 2 and Appendix A. If the TIA traffic counts are taken within one year of the deadline for submittal of CMP highway monitoring data, the local jurisdiction would save the cost of having to conduct the traffic counts twice.

## D.7 TRIP DISTRIBUTION

For trip distribution by direct/manual assignment, generalized trip distribution factors are provided in Exhibit D-3, based on regional modeling efforts. These factors indicate Regional Statistical Area (RSA)-level tripmaking for work and non-work trip purposes.

(These RSAs are illustrated in Exhibit D-4.) For locations where it is difficult to determine the project site RSA, census tract/RSA correspondence tables are available from MTA.

Exhibit D-5 describes a general approach to applying the preceding factors. Project trip distribution must be consistent with these trip distribution and purpose factors; the basis for variation must be documented.

Local agency travel demand models disaggregated from the SCAG regional model are presumed to conform to this requirement, as long as the trip distribution functions are consistent with the regional distribution patterns. For retail commercial developments, alternative trip distribution factors may be appropriate based on the market area for the specific planned use. Such market area analysis must clearly identify the basis for the trip distribution pattern expected.

## D.8 IMPACT ANALYSIS

CMP Transportation Impact Analyses contain two separate impact studies covering roadways and transit. Section Nos. D.8.1-D.8.3 cover required roadway analysis while Section No. D.8.4 covers the required transit impact analysis. Section Nos. D.9.1-D.9.4 define the requirement for discussion and evaluation of alternative mitigation measures.

**D.8.1 Intersection Level of Service Analysis.** The LA County CMP recognizes that individual jurisdictions have wide ranging experience with LOS analysis, reflecting the variety of community characteristics, traffic controls and street standards throughout the county. As a result, the CMP acknowledges the possibility that no single set of assumptions should be mandated for all TIAs within the county.

However, in order to promote consistency in the TIAs prepared by different jurisdictions, CMP TIAs must conduct intersection LOS calculations using either of the following methods:

- The Intersection Capacity Utilization (ICU) method as specified for CMP highway monitoring (see Appendix A); or
- The Critical Movement Analysis (CMA) / Circular 212 method.

Variation from the standard assumptions under either of these methods for circumstances at particular intersections must be fully documented.

TIAs using the 1985 or 1994 Highway Capacity Manual (HCM) operational analysis must provide converted volume-to-capacity based LOS values, as specified for CMP highway monitoring in Appendix A.

**D.8.2 Arterial Segment Analysis.** For TIAs involving arterial segment analysis, volume-to-capacity ratios must be calculated for each segment and LOS values assigned using the V/C-LOS equivalency specified for arterial intersections. A capacity of 800 vehicles per hour per through traffic lane must be used, unless localized conditions necessitate alternative values to approximate current intersection congestion levels.

**D.8.3 Freeway Segment (Mainline) Analysis.** For the purpose of CMP TIAs, a simplified analysis of freeway impacts is required. This analysis consists of a demand-to-capacity calculation for the affected segments, and is indicated in Exhibit D-6.

**D.8.4 Transit Impact Review.** CMP transit analysis requirements are met by completing and incorporating into an EIR the following transit impact analysis:

- Evidence that affected transit operators received the Notice of Preparation.
- A summary of existing transit services in the project area. Include local fixed-route services within a ¼ mile radius of the project; express bus routes within a 2 mile radius of the project, and; rail service within a 2 mile radius of the project.
- Information on trip generation and mode assignment for both AM and PM peak hour periods as well as for daily periods. Trips assigned to transit will also need to be calculated for the same peak hour and daily periods. Peak hours are defined as 7:30-8:30 AM and 4:30-5:30 PM. Both “peak hour” and “daily” refer to average weekdays, unless special seasonal variations are expected. If expected, seasonal variations should be described.
- Documentation of the assumption and analyses that were used to determine the number and percent of trips assigned to transit. Trips assigned to transit may be calculated along the following guidelines:
  - Multiply the total trips generated by 1.4 to convert vehicle trips to person trips;
  - For each time period, multiply the result by one of the following factors:
    - 3.5% of Total Person Trips Generated for most cases, except:
      - 10% primarily Residential within 1/4 mile of a CMP transit center
      - 15% primarily Commercial within 1/4 mile of a CMP transit center
      - 7% primarily Residential within 1/4 mile of a CMP multi-modal transportation center
      - 9% primarily Commercial within 1/4 mile of a CMP multi-modal transportation center
      - 5% primarily Residential within 1/4 mile of a CMP transit corridor
      - 7% primarily Commercial within 1/4 mile of a CMP transit corridor
      - 0% if no fixed route transit services operate within one mile of the project

To determine whether a project is primarily residential or commercial in nature, please refer to the CMP land use categories listed and defined in Appendix E, *Guidelines for New Development Activity Tracking and Self Certification*. For projects that are only partially within the above one-quarter mile radius, the base rate (3.5% of total trips generated) should be applied to all of the project buildings that touch the radius perimeter.

- Information on facilities and/or programs that will be incorporated in the development plan that will encourage public transit use. Include not only the jurisdiction’s TDM Ordinance measures, but other project specific measures.

- Analysis of expected project impacts on current and future transit services and proposed project mitigation measures, and;
- Selection of final mitigation measures remains at the discretion of the local jurisdiction/lead agency. Once a mitigation program is selected, the jurisdiction self-monitors implementation through the existing mitigation monitoring requirements of CEQA.

## D.9 IDENTIFICATION AND EVALUATION OF MITIGATION

**D.9.1 Criteria for Determining a Significant Impact.** For purposes of the CMP, a significant impact occurs when the proposed project increases traffic demand on a CMP facility by 2% of capacity ( $V/C \geq 0.02$ ), causing LOS F ( $V/C > 1.00$ ); if the facility is already at LOS F, a significant impact occurs when the proposed project increases traffic demand on a CMP facility by 2% of capacity ( $V/C \geq 0.02$ ). The lead agency may apply a more stringent criteria if desired.

**D.9.2 Identification of Mitigation.** Once the project has been determined to cause a significant impact, the lead agency must investigate measures which will mitigate the impact of the project. Mitigation measures proposed must clearly indicate the following:

- Cost estimates, indicating the fair share costs to mitigate the impact of the proposed project. If the improvement from a proposed mitigation measure will exceed the impact of the project, the TIA must indicate the proportion of total mitigation costs which is attributable to the project. This fulfills the statutory requirement to exclude the costs of mitigating inter-regional trips.
- Implementation responsibilities. Where the agency responsible for implementing mitigation is not the lead agency, the TIA must document consultation with the implementing agency regarding project impacts, mitigation feasibility and responsibility.

Final selection of mitigation measures remains at the discretion of the lead agency. The TIA must, however, provide a summary of impacts and mitigation measures. Once a mitigation program is selected, the jurisdiction self-monitors implementation through the mitigation monitoring requirements contained in CEQA.

**D.9.3 Project Contribution to Planned Regional Improvements.** If the TIA concludes that project impacts will be mitigated by anticipated regional transportation improvements, such as rail transit or high occupancy vehicle facilities, the TIA must document:

- Any project contribution to the improvement, and
- The means by which trips generated at the site will access the regional facility.

**D.9.4 Transportation Demand Management (TDM).** If the TIA concludes or assumes that project impacts will be reduced through the implementation of TDM measures, the TIA must document specific actions to be implemented by the project which substantiate these conclusions.

---

**D.10 REFERENCES**

1. *Traffic Access and Impact Studies for Site Development: A Recommended Practice*, Institute of Transportation Engineers, 1991.
2. *Trip Generation*, 5th Edition, Institute of Transportation Engineers, 1991.
3. *Travel Forecast Summary: 1987 Base Model - Los Angeles Regional Transportation Study (LARTS)*, California State Department of Transportation (Caltrans), February 1990.
4. *Traffic Study Guidelines*, City of Los Angeles Department of Transportation (LADOT), July 1991.
5. *Traffic/Access Guidelines*, County of Los Angeles Department of Public Works.
6. *Building Better Communities*, Sourcebook, Coordinating Land Use and Transit Planning, American Public Transit Association.
7. *Design Guidelines for Bus Facilities*, Orange County Transit District, 2nd Edition, November 1987.
8. *Coordination of Transit and Project Development*, Orange County Transit District, 1988.
9. *Encouraging Public Transportation Through Effective Land Use Actions*, Municipality of Metropolitan Seattle, May 1987.

## NATIVE AMERICAN HERITAGE COMMISSION

1550 Harbor Boulevard, Suite 100  
West Sacramento, CA 95691  
(916) 373-3715  
Fax (916) 373-5471  
Web Site [www.nahc.ca.gov](http://www.nahc.ca.gov)  
Ds\_nahc@pacbell.net  
e-mail: ds\_nahc@pacbell.net



July 30, 2014

Mr. Jason Mikaelian  
**City of El Monte**  
11333 Valley Boulevard  
El Monte, CA 91731

RE: SCH# 2014071044 CEQA Notice of Preparation; draft Environmental Impact Report (DEIR) for the **"Flair Spectrum El Monte Specific Plan"** project located in the City of El Monte, Los Angeles County, California

Dear Mr. Mikaelian:

The Native American Heritage Commission (NAHC) has reviewed the above-referenced environmental document.

The California Environmental Quality Act (CEQA) states that any project which includes archeological resources, is a significant effect requiring the preparation of an EIR (CEQA guidelines 15064.5(b)). To adequately comply with this provision and mitigate project-related impacts on archaeological resources, the Commission recommends the following actions be required:

Lead agencies should include in their mitigation plan provisions for the identification and evaluation of accidentally discovered archeological resources, pursuant to California Environmental Quality Act (CEQA) §15064.5(f). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American, with knowledge in cultural resources, should monitor all ground-disturbing activities. Also, California Public Resources Code Section 21083.2 require documentation and analysis of archaeological items that meet the standard in Section 15064.5 (a)(b)(f).

We suggest that this (additional archaeological activity) be coordinated with the NAHC, if possible. The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. Any information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum, and not be made available for public disclosure pursuant to California Government Code Section 6254.10.

A list of appropriate Native American Contacts for consultation concerning the project site has been provided and is attached to this letter to determine if the proposed active might impinge on any cultural resources.

California Government Code Section 65040.12(e) defines "environmental justice" to provide "fair treatment of People... with respect to the development, adoption, implementation, and enforcement of environmental laws, regulations and policies." (The California Code is consistent with the Federal Executive Order 12898 regarding 'environmental justice.' Also, applicable to state agencies is Executive Order B-10-11 requires consultation with Native American tribes their elected officials and other representatives of tribal governments to provide meaningful input into the development of legislation, regulations, rules, and policies on matters that may affect tribal communities.

Lead agencies should consider first, avoidance for sacred and/or historical sites, pursuant to CEQA Guidelines 15370(a). Then if the project goes ahead, lead agencies include in their mitigation and monitoring plan provisions for the analysis and disposition of recovered artifacts, pursuant to California Public Resources Code Section 21083.2 in consultation with culturally affiliated Native Americans.

Lead agencies should include provisions for discovery of Native American human remains in their mitigation plan. Health and Safety Code §7050.5, CEQA §15064.5(e), and Public Resources Code §5097.98 mandates the process to be followed in the event of an accidental discovery of any human remains in a location other than a dedicated cemetery.

Sincerely,

  
Gayle Totton  
Program Analyst

CC: State Clearinghouse

Attachment: Native American Contacts list

**Native American Contacts  
Los Angeles County, California  
July 30, 2014**

LA City/County Native American Indian Comm  
Ron Andrade, Director  
3175 West 6th St, Rm. 403  
Los Angeles , CA 90020  
randrade@css.lacounty.gov  
(213) 351-5324  
(213) 386-3995 Fax

Gabrielino-Tongva Tribe  
Linda Candelaria, Co-Chairperson  
P.O. Box 180  
Bonsall , CA 92003  
palmsprings9@yahoo.com  
(626) 676-1184 Cell  
(760) 636-0854 Fax

Tongva Ancestral Territorial Tribal Nation  
John Tommy Rosas, Tribal Admin.  
Gabrielino Tongva  
tattnlaw@gmail.com  
(310) 570-6567

Gabrieleno Band of Mission Indians  
Andrew Salas, Chairperson  
P.O. Box 393  
Covina , CA 91723  
gabrielenoindians@yahoo.  
(626) 926-4131

Gabrieleno/Tongva San Gabriel Band of Mission  
Anthony Morales, Chairperson  
P.O. Box 693  
San Gabriel , CA 91778  
GTTribalcouncil@aol.com  
(626) 483-3564 Cell  
(626) 286-1262 Fax

Gabrielino-Tongva Tribe  
Conrad Acuna,  
P.O. Box 180  
Bonsall , CA 92003  
(760) 636-0854 Fax

Gabrielino Tongva Indians of California Tribal Council  
Robert F. Dorame, Tribal Chair/Cultural Resources  
P.O. Box 490  
Bellflower , CA 90707  
gtongva@verizon.net  
(562) 761-6417 Voice/Fax

Gabrielino /Tongva Nation  
Sam Dunlap, Cultural Resorces Director  
P.O. Box 86908  
Los Angeles , CA 90086  
samdunlap@earthlink.net  
(909) 262-9351

This list is current only as of the date of this document.

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

This list is only applicable for contacting locative Americans with regard to cultural resources for the proposed SCH#2014071044; CEQA Notice of Preparation (NOP); draft Environmental Impact Report (DEIR) for the Flair Spectrum El Monte Specific Plan Project; located in the City of El Monte; Los Angeles County, California.



South Coast

Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178

(909) 396-2000 • www.aqmd.gov

July 22, 2014

Jason C. Mikaelian, Planning Service Manager  
City of El Monte – City Hall West  
11333 Valley Boulevard  
El Monte, CA 91731

### **Notice of Preparation of a CEQA Document for the Flair Spectrum El Monte Project**

The South Coast Air Quality Management District (SCAQMD) staff appreciates the opportunity to comment on the above-mentioned document. The SCAQMD staff's comments are recommendations regarding the analysis of potential air quality impacts from the proposed project that should be included in the draft CEQA document. Please send the SCAQMD a copy of the Draft EIR upon its completion. Note that copies of the Draft EIR that are submitted to the State Clearinghouse are not forwarded to the SCAQMD. Please forward a copy of the Draft EIR directly to SCAQMD at the address in our letterhead. **In addition, please send with the draft EIR all appendices or technical documents related to the air quality and greenhouse gas analyses and electronic versions of all air quality modeling and health risk assessment files. These include original emission calculation spreadsheets and modeling files (not Adobe PDF files). Without all files and supporting air quality documentation, the SCAQMD will be unable to complete its review of the air quality analysis in a timely manner. Any delays in providing all supporting air quality documentation will require additional time for review beyond the end of the comment period.**

#### **Air Quality Analysis**

The SCAQMD adopted its California Environmental Quality Act (CEQA) Air Quality Handbook in 1993 to assist other public agencies with the preparation of air quality analyses. The SCAQMD recommends that the Lead Agency use this Handbook as guidance when preparing its air quality analysis. Copies of the Handbook are available from the SCAQMD's Subscription Services Department by calling (909) 396-3720. More recent guidance developed since this Handbook was published is also available on SCAQMD's website here: [http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/ceqa-air-quality-handbook-\(1993\)](http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/ceqa-air-quality-handbook-(1993)). SCAQMD staff also recommends that the lead agency use the CalEEMod land use emissions software. This software has recently been updated to incorporate up-to-date state and locally approved emission factors and methodologies for estimating pollutant emissions from typical land use development. CalEEMod is the only software model maintained by the California Air Pollution Control Officers Association (CAPCOA) and replaces the now outdated URBEMIS. This model is available free of charge at: [www.caleemod.com](http://www.caleemod.com).

The Lead Agency should identify any potential adverse air quality impacts that could occur from all phases of the project and all air pollutant sources related to the project. Air quality impacts from both construction (including demolition, if any) and operations should be calculated. Construction-related air quality impacts typically include, but are not limited to, emissions from the use of heavy-duty equipment from grading, earth-loading/unloading, paving, architectural coatings, off-road mobile sources (e.g., heavy-duty construction equipment) and on-road mobile sources (e.g., construction worker vehicle trips, material transport trips). Operation-related air quality impacts may include, but are not limited to, emissions from stationary sources (e.g., boilers), area sources (e.g., solvents and coatings), and vehicular trips (e.g., on- and off-road tailpipe emissions and entrained dust). Air quality impacts from indirect sources, that is, sources that generate or attract vehicular trips should be included in the analysis.

The SCAQMD has also developed both regional and localized significance thresholds. The SCAQMD staff requests that the lead agency quantify criteria pollutant emissions and compare the results to the recommended regional significance thresholds found here: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2>. In addition to analyzing regional air quality impacts, the SCAQMD staff recommends calculating localized air quality impacts and comparing the results to localized significance thresholds (LSTs). LST's can be used in addition to the recommended regional significance thresholds as a second indication of air quality impacts when preparing a CEQA document. Therefore, when preparing the air quality analysis for the proposed project, it is

recommended that the lead agency perform a localized analysis by either using the LSTs developed by the SCAQMD or performing dispersion modeling as necessary. Guidance for performing a localized air quality analysis can be found at: <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds>.

In the event that the proposed project generates or attracts vehicular trips, especially heavy-duty diesel-fueled vehicles, it is recommended that the lead agency perform a mobile source health risk assessment. Guidance for performing a mobile source health risk assessment ("*Health Risk Assessment Guidance for Analyzing Cancer Risk from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis*") can be found at: <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mobile-source-toxics-analysis>. An analysis of all toxic air contaminant impacts due to the use of equipment potentially generating such air pollutants should also be included.

In addition, guidance on siting incompatible land uses (such as placing homes near freeways) can be found in the California Air Resources Board's *Air Quality and Land Use Handbook: A Community Perspective*, which can be found at the following internet address: <http://www.arb.ca.gov/ch/handbook.pdf>. CARB's Land Use Handbook is a general reference guide for evaluating and reducing air pollution impacts associated with new projects that go through the land use decision-making process.

### **Mitigation Measures**

In the event that the project generates significant adverse air quality impacts, CEQA requires that all feasible mitigation measures that go beyond what is required by law be utilized during project construction and operation to minimize or eliminate these impacts. Pursuant to state CEQA Guidelines §15126.4 (a)(1)(D), any impacts resulting from mitigation measures must also be discussed. Several resources are available to assist the Lead Agency with identifying possible mitigation measures for the project, including:

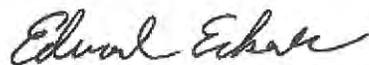
- Chapter 11 of the SCAQMD *CEQA Air Quality Handbook*
- SCAQMD's CEQA web pages at: <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mitigation-measures-and-control-efficiencies>.
- CAPCOA's *Quantifying Greenhouse Gas Mitigation Measures* available here: <http://www.capcoa.org/wp-content/uploads/2010/11/CAPCOA-Quantification-Report-9-14-Final.pdf>.
- SCAQMD's Rule 403 – Fugitive Dust, and the Implementation Handbook for controlling construction-related emissions
- Other measures to reduce air quality impacts from land use projects can be found in the SCAQMD's Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning. This document can be found at the following internet address: <http://www.aqmd.gov/docs/default-source/planning/air-quality-guidance/complete-guidance-document.pdf?sfvrsn=4>.

### **Data Sources**

SCAQMD rules and relevant air quality reports and data are available by calling the SCAQMD's Public Information Center at (909) 396-2039. Much of the information available through the Public Information Center is also available via the SCAQMD's webpage (<http://www.aqmd.gov>).

The SCAQMD staff is available to work with the Lead Agency to ensure that project emissions are accurately evaluated and mitigated where feasible. If you have any questions regarding this letter, please contact me at [Eeckerle@aqmd.gov](mailto:Eeckerle@aqmd.gov) or call me at (909) 396-3128.

Sincerely,



Ed Eckerle  
Program Supervisor  
Planning, Rule Development & Area Sources



9701 LAS TUNAS DRIVE | TEMPLE CITY | CALIFORNIA | 91780-2249 | (626) 285-2171

August 7, 2014

Jason Mikaelian, Planning Service Manager  
City of El Monte – City Hall West  
11333 Valley Boulevard  
El Monte, California 91731

[via email to jmikaelian@elmonteca.gov](mailto:jmikaelian@elmonteca.gov)

**Re: Notice of Preparation for Flair Spectrum El Monte Project and Specific Plan**

Dear Mr. Mikaelian:

Thank you for the opportunity to comment on the Notice of Preparation of an Environmental Impact Report (EIR) for the proposed Flair Spectrum El Monte Project and Specific Plan. It is our understanding that the project will be comprised of 500,000 square feet of retail use (optionally including up to 100,000 square feet of office); 50,000 square feet of restaurant use; a 220-room hotel; and 600 residential units. The project will be located at 9400 Flair Drive, south of the I-10 freeway with access on Flair Drive and Rio Hondo Avenue.

Based on the trip generation rates published in the *Trip Generation Manual*, 9th Edition published by the Institute of Transportation Engineers, this project will generate roughly 30,000 new weekday vehicle trips with 600 during the AM peak hour and 1,800 during the PM peak hour. These trips will be distributed onto local and regional streets and freeways.

Temple City experiences a significant amount of traffic from commuters using already impacted arterials and local freeways during AM and PM peak hour periods. This proposed project, while on the south side of the I-10 freeway, is only about one mile from the southern boundary of Temple City. The proposed project may attract a significant amount of traffic from the north that will potentially extend into Temple City via arterials such as Rosemead Boulevard, Temple City Boulevard, and Baldwin Avenue, adding to these already congested roadways.

We believe that the volume of project trips using these Temple City streets and their intersections could potentially exceed significance thresholds for environmental impacts. Therefore, we request that intersections along these streets be studied in the traffic impact analysis as appropriate to determine potential impacts and identify any required mitigations. The analysis

Mr. Jason Mikaelian

August 7, 2014

Page 2

should also account for traffic from any cumulative development projects already planned or under construction in Temple City. We will be happy to provide any information needed for the traffic impact analysis or any other aspect of the EIR.

Thank you again for informing us about this project and the forthcoming EIR. We will appreciate the opportunity to review the EIR when it is circulated for public comment. Please do not hesitate to contact me at [mforbes@templecity.us](mailto:mforbes@templecity.us) or (626) 285-2171 x2306 if you have any questions or for information needed for preparation of the EIR.

Sincerely,

A handwritten signature in blue ink that reads "Michael D. Forbes". The signature is written in a cursive style.

Michael D. Forbes

Community Development Director

Southern California Association of  
Government  
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Appendix B Air Quality and Climate Change Assessment





# Flair Spectrum El Monte

## Air Quality & Climate Change Assessment

October 2014 (05360)

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This document is formatted for double-sided printing to conserve natural resources.

# Flair Spectrum El Monte

Air Quality & Climate Change Assessment

October 2014

El Monte, California



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**Appendices**

Appendix A CalEEMod Output

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Construction-related and operational emissions of criteria pollutants were modeled and analyzed for the proposed project located at 9400 Flair Drive, City of El Monte, Los Angeles County, California. This report also analyzes the proposed project's consistency with the South Coast Air Quality Management District (SCAQMD) 2012 Air Quality Management Plan (AQMP) for the South Coast Air Basin. Cumulative impacts were analyzed using the methodology provided by the 1993 SCAQMD California Environmental Quality Act (CEQA) Air Quality Handbook. The results of this report find that the thresholds established by SCAQMD for volume and receptor-specific criteria pollutant emissions and toxic air contaminants will not be exceeded.

Additionally, this report models and analyzes construction-related and operational emissions of greenhouse gases from the proposed project. This analysis utilizes guidance provided in the California Air Pollution Control Officers Association (CAPCOA) *CEQA and Climate Change* white paper and the *Quantifying Greenhouse Gas Mitigation Measures* handbook. Modeling of emissions utilizes the California Emissions Estimator Model (CalEEMod) v 2013.2.2. The results of this report find that the interim threshold established by the South Coast Air Quality Management District for greenhouse gas emissions will not be exceeded.

### Project Description

The proposed project is located on approximately 14.66 acres. The proposed project includes the construction of a mixed-use development. The proposed development will include two 18-story residential buildings with a combined 600 dwelling units above a seven-story parking structure (one level below-grade) on the east and west sides of the project site. Additionally, shared common outdoor space will be provided for residents in the form of a "green deck" on the roof of the residential parking structure between the two residential buildings. The development will also include 640,000 square feet of retail space on two floors as well as 50,000 square feet of restaurant space located on the third floor roof deck. Below the retail development is one level of below-grade parking. Also included in the development is an eleven-story hotel with 250 rooms above two levels of below-grade parking.

Flair Drive is a 45-foot wide, two-lane, undivided roadway. The project includes the widening of Flair Drive to 63 feet to provide public sidewalks and parkway. Rio Hondo Avenue is a 60-foot wide, two-lane, undivided roadway. The project includes the widening of Rio Hondo Avenue to 90 feet to provide public sidewalks and parkway.

### Air Quality

The proposed project will not result in substantial emissions of oxides of nitrogen, volatile organic compounds, or particulate matter and would not exceed the regional growth assumptions used in the Air Quality Management Plan (AQMP). The proposed project will not individually cause or cumulatively contribute to an air quality standard violation. Toxics emissions, carbon monoxide, and localized criteria pollutants will not substantially impact sensitive receptors in vicinity of the proposed project. The proposed project will not expose a substantial number of people to odors.

### Climate Change

Greenhouse gas emissions will exceed the interim SCAQMD threshold. However, the proposed project will not conflict with local or state greenhouse gas emissions strategies.

### Mitigation Measures

The following mitigation measures are required to reduce, minimize, or avoid exceedance of established thresholds.

- AQ-1 Prior to issuance of building permits, the City Building Official shall verify that construction plans submitted by the project proponent reflect use of architectural coatings where the content of volatile organic compounds (VOC) does not exceed zero grams per liter (g/l) for interior and exterior residential and non-residential applications. This measure shall be verified through standard building inspections in light of the performance standard that emissions of

volatile organic compounds from application of interior or exterior coatings shall not exceed the daily emissions thresholds established by the South Coast Air Quality Management District. The applicant shall bear the cost of implementing this mitigation.

- AQ-2 Prior to issuance of grading permits, the Building and Safety Department shall verify that construction plans for specify use of construction equipment that utilizes a Tier IV engine emissions output equivalent for all Phase 1 construction activity. The construction equipment requirements as specified on the grading plans shall be verified in light of the performance standards established by the South Coast Air Quality Management District and verified by the Building and Safety Department.
- AQ-3 Prior to issuance of grading permits, the Building and Safety Department shall verify that grading plans specify a maximum of one acre is disturbed per day during grading activities. This measure shall be verified through standard site inspections and daily construction reports submitted to the Building and Safety Department.

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## INTRODUCTION

This report models and analyzes construction-related and operational emissions of criteria air pollutants, toxic air contaminants, and greenhouse gas emissions from the proposed Flair Spectrum El Monte Specific Plan project. The proposed project is located on approximately 14.66 acres. The proposed project includes the construction of a mixed-use development. The proposed development will include two 18-story residential buildings with a combined 600 dwelling units above a seven-story parking structure (one level below-grade) on the east and west sides of the project site. The development will also include 640,000 square feet of retail space on two floors as well as 50,000 square feet of restaurant space located on the third floor roof deck. Below the retail development is one level of below-grade parking. Also included in the development is an eleven-story hotel with 250 rooms above two levels of below-grade parking.

The air quality analysis provided herein utilizes guidance provided in the South Coast Air Quality Management District (SCAQMD) the 1993 California Environmental Quality Act (CEQA) Air Quality handbook as amended and supplemented (<http://www.aqmd.gov/ceqa/hdbk.html>). Modeling of emissions utilizes the following software and guidelines:

- California Emissions Estimator Model (CalEEMod) v 2013.2.2
- California Department of Transportation (Caltrans) *Carbon Monoxide Protocol*

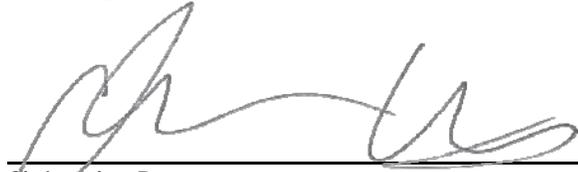
The climate change analysis provided herein utilizes guidance provided in the California Air Pollution Control Officers Association (CAPCOA) *CEQA and Climate Change* white paper and the *Quantifying Greenhouse Gas Mitigation Measures* handbook. Modeling of greenhouse gas emissions utilizes the California Emissions Estimator Model (CalEEMod) v 2013.2.2.

This report has been prepared utilizing project-specific characteristics where available. In those instances where project-specific data is not available, the analysis has been supplemented by established model default values or other standardized sources of comparable data. In any case where non-project defaults or other data have been used, a “worst-case” scenario was developed to ensure a conservative estimate of emissions.

This report has been prepared for use by the Lead Agency to assess potential project-related air quality impacts in compliance with the State CEQA Statutes and Guidelines, particularly in respect to the air quality issues identified in Appendix G of the State CEQA Guidelines. This report suggests significance thresholds pursuant to published data for review and consideration by the Lead Agency that is responsible for making determinations of significance pursuant to CEQA.

This document has been reviewed in accordance with the *Table 7-2, Checklist for an Air Quality Analysis Section* of the SCAQMD Air Quality Handbook for quality control purposes.

This report was prepared by Christopher Brown (Director of Environmental Services) and Olivia Chan (Project Associate) of MIG | Hogle-Ireland, Inc. under contract by Flair Spectrum, LLC.



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**Christopher Brown**  
Director of Environmental Services



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Project Associate

## Climate

The proposed project is located in the City of El Monte, Los Angeles County, California. The City of El Monte and the broader Los Angeles Basin are defined by a Mediterranean climate with dry summers and rainy winters. Annual rainfall averages 14.78 inches with the rainy season occurring during the winter.<sup>1</sup> The coolest month of the year is December with an average monthly low of 47.2° Fahrenheit (F). The warmest month is August with an average monthly high of 89.7° F. The annual average maximum temperature is 79.1° F and the annual average minimum temperature is 55.7° F. El Monte is located at an elevation of approximately 245 to 340 feet above mean sea level (AMSL).<sup>2</sup> The project site is located at an approximate elevation of 250 to 260 AMSL.

## Regional Air Quality

The proposed project is located within the South Coast Air Basin (Basin).<sup>3</sup> The basin includes Orange County and the non-desert portions of Los Angeles, San Bernardino, and Riverside Counties. The San Gabriel, San Bernardino, and San Jacinto Mountains bound the Basin to the north and east that trap ambient air and pollutants within the Los Angeles and Inland Empire valleys below. The South Coast Air Quality Management District (SCAQMD) manages the Basin. Pursuant to the California Clean Air Act (CCAA), SCAQMD is responsible for bringing air quality within the Basin into conformity with federal and State air quality standards by reducing existing emission levels and ensuring that future emission levels meet applicable air quality standards. SCAQMD works with federal, State, and local agencies to reduce pollutant sources through the development of rules and regulations.

Both California and the federal government have established health-based ambient air quality standards (AAQS) for seven air pollutants (known as *criteria pollutants*). These pollutants include ozone (O<sub>3</sub>), carbon monoxide (CO), nitrogen dioxide (NO<sub>2</sub>), sulfur dioxide (SO<sub>2</sub>), inhalable particulate matter with a diameter of 10 microns or less (PM<sub>10</sub>), fine particulate matter with a diameter of 2.5 microns or less (PM<sub>2.5</sub>), and lead (Pb). The State has also established AAQS for the additional pollutants of visibility reducing particles, sulfates, hydrogen sulfide, and vinyl chloride. The AAQS are designed to protect the health and welfare of the populace within a reasonable margin of safety. Where the State and federal standards differ, State AAQS are more stringent than federal AAQS. Federal and State standards are shown in Table 1 (Ambient Air Quality Standards). A brief description of each criteria pollutant is provided below.

**Ozone.** Ozone is a pungent, colorless, and highly reactive gas that forms from the atmospheric reaction of organic gases with nitrogen oxides in the presence of sunlight. Ozone is most commonly associated with smog. Ozone precursors such as reactive organic gases (ROG) and oxides of nitrogen (NO<sub>x</sub>) are released from mobile and stationary sources. Ozone is a respiratory irritant and can cause cardiovascular diseases, eye irritation, and impaired cardiopulmonary function. Ozone can also damage building materials and plant leaves.

**Carbon Monoxide.** Carbon monoxide is primarily emitted from vehicles due to the incomplete combustion of fuels. Carbon monoxide has wide ranging impacts on human health because it combines with hemoglobin in the body and reduces the amount of oxygen transported in the bloodstream. Carbon monoxide can result in reduced tolerance for exercise, impairment of mental function, impairment of fetal development, headaches, nausea, and death at high levels of exposure.

**Nitrogen Dioxide.** Nitrogen dioxide and other oxides of nitrogen (NO<sub>x</sub>) contribute to the formation of smog and results in the brownish haze associated with it. They are primarily emitted from motor vehicle exhaust but can be omitted from other high-temperature stationary sources. Nitrogen oxides can aggravate respiratory illnesses, reduce visibility, impair plant growth, and form acid rain.

**Particulate Matter.** Particulate matter is a complex mixture of small-suspended particles and liquid droplets in the air. Particulate matter between ten microns and 2.5 microns is known as PM<sub>10</sub>, also known as coarse or inhalable particulate matter. PM<sub>10</sub> is emitted from diverse sources including road dust, diesel soot, combustion products, abrasion of tires and brakes, construction operations, and windstorms. PM<sub>10</sub> can also be formed secondarily in the atmosphere when NO<sub>2</sub> and SO<sub>2</sub>

react with ammonia. Particulate matter less than 2.5 microns in size are called PM<sub>2.5</sub> or fine particulate matter. PM<sub>2.5</sub> is primarily emitted from point sources such as power plants, industrial facilities, automobiles, wood-burning fireplaces, and construction sites. Particulate matter is deposited in the lungs and cause permanent lung damage, potentially resulting in lung disease and respiratory symptoms like asthma and bronchitis. Particulate matter has also been linked to cardiovascular problems such as arrhythmia and heart attacks. Particulate matter can also interfere with the body's ability to clear the respiratory tract and can act as a carrier of absorbed toxic substances. Particulate matter causes welfare issues because it scatters light and reduces visibility, causes environmental damage such as increasing the acidity of lakes and streams, and can stain and damage stone, such as that applied in statues and monuments.

**Sulfur Dioxide.** Sulfur dioxide and other oxides of sulfur (SO<sub>x</sub>) are reactive gases emitted from the burning of fossil fuels, primarily from power plants and other industrial facilities.<sup>4</sup> Other less impacting sources include metal extraction activities, locomotives, large ships, and off-road equipment. Human health impacts associated with SO<sub>x</sub> emissions include bronchoconstriction and increased asthma symptoms.

**Lead.** Lead is primarily emitted from metal processing facilities (i.e. secondary lead smelters) and other sources such as manufacturers of batteries, paints, ink, ceramics, and ammunition. Historically, automobiles were the primary sources before lead was phased out of gasoline. The health effects of exposure to lead include gastrointestinal disturbances, anemia, kidney diseases, and potential neuromuscular and neurologic dysfunction. Lead is also classified as a probable human carcinogen.

**Table 1  
Ambient Air Quality Standards**

Pollutant	Averaging Time	California Standards <sup>1</sup>		National Standards <sup>2</sup>		
		Concentration <sup>3</sup>	Method <sup>4</sup>	Primary <sup>3,5</sup>	Secondary <sup>3,6</sup>	Method <sup>7</sup>
Ozone (O <sub>3</sub> )	1 Hour	0.09 ppm (180 µg/m <sup>3</sup> )	Ultraviolet Photometry	-	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.07 ppm (137 µg/m <sup>3</sup> )		0.075 ppm (147 µg/m <sup>3</sup> )		
Respirable Particulate Matter (PM <sub>10</sub> ) <sup>8</sup>	24 Hour	50 µg/m <sup>3</sup>	Gravimetric or Beta Attenuation	150 µg/m <sup>3</sup>	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m <sup>3</sup>		-		
Fine Particulate Matter (PM <sub>2.5</sub> ) <sup>8</sup>	24 Hour	-	-	35 µg/m <sup>3</sup>	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m <sup>3</sup>	Gravimetric or Beta Attenuation	12 µg/m <sup>3</sup>		
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m <sup>3</sup> )	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m <sup>3</sup> )	-	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10mg/m <sup>3</sup> )		9 ppm (10 mg/m <sup>3</sup> )	-	
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m <sup>3</sup> )		-	-	
Nitrogen Dioxide (NO <sub>2</sub> )	Annual Arithmetic Mean	0.03 ppm (57 µg/m <sup>3</sup> )	Gas Phase Chemiluminescence	0.053 ppm (100 µg/m <sup>3</sup> )	Same as Primary Standard	Gas Phase Chemiluminescence
	1 Hour	0.18 ppm (339 µg/m <sup>3</sup> )		100 ppb (188 µg/m <sup>3</sup> )		
Sulfur Dioxide (SO <sub>2</sub> )	1 Hour	0.25 ppm (655 µg/m <sup>3</sup> )	Ultraviolet Fluorescence	75 ppb (196 µg/m <sup>3</sup> )	-	Ultraviolet Fluorescence; Spectrophotometry (Pararosaniline Method)
	3 Hour	-		-	0.5 ppm (1,300 µg/m <sup>3</sup> )	
	24 Hour	0.04 ppm (105 µg/m <sup>3</sup> )		0.14 ppm (for certain areas) <sup>10</sup>	-	
	Annual Arithmetic Mean	-		0.030 ppm (for certain areas) <sup>10</sup>	-	
Lead <sup>11,12</sup>	30 Day Average	1.5 µg/m <sup>3</sup>	Atomic Absorption	-	Same as Primary Standard	High Volume Sampler and Atomic Absorption
	Calendar Quarter	-		1.5 µg/m <sup>3</sup> (for certain areas) <sup>12</sup>		
	Rolling 3-Month Average <sup>10</sup>	-		0.15 µg/m <sup>3</sup>		
Visibility Reducing Particles <sup>13</sup>	8 Hour	See footnote 13	Beta Attenuation and Transmittance through Filter Tape	No Federal Standards		
Sulfates	24 Hour	25 µg/m <sup>3</sup>	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m <sup>3</sup> )	Ultraviolet Fluorescence			
Vinyl Chloride <sup>11</sup>	24 Hour	0.01 ppm (26 µg/m <sup>3</sup> )	Gas Chromatography			

Source: ARB, June 2013

PPM, parts per million  
µg/m<sup>3</sup>, micrograms per cubic meter

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), and particulate matter (PM<sub>10</sub>, PM<sub>2.5</sub>, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM<sub>10</sub>, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150

$\mu\text{g}/\text{m}^3$  is equal to or less than one. For  $\text{PM}_{2.5}$ , the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact U.S. EPA for further clarification and current national policies.

3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of  $25^\circ\text{C}$  and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of  $25^\circ\text{C}$  and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

4. Any equivalent measurement method which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.

5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.

6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

7. Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the EPA.

8. On December 14, 2012, the national annual  $\text{PM}_{2.5}$  primary standard was lowered from  $15 \mu\text{g}/\text{m}^3$  to  $12.0 \mu\text{g}/\text{m}^3$ . The existing national 24-hour  $\text{PM}_{2.5}$  standards (primary and secondary) were retained at  $35 \mu\text{g}/\text{m}^3$ , as was the annual secondary standard of  $15 \mu\text{g}/\text{m}^3$ . The existing 24-hour  $\text{PM}_{10}$  standards (primary and secondary) of  $150 \mu\text{g}/\text{m}^3$  also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.

9. To attain the 1-hour national standard, the 3-year average of the 98th percentile of the daily maximum 1-hour daily maximum concentrations at each site must not exceed 100ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national standards to the California standards the units can be converted from ppb to ppm. In this case, the national standards of 100ppb is identical to 0.100ppm.

10. On June 2, 2010, a new 1-hour  $\text{SO}_2$  standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971  $\text{SO}_2$  national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.

11. The ARB has identified lead and vinyl chloride as "toxic air contaminants" with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

11. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard ( $1.5 \mu\text{g}/\text{m}^3$  as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

12. In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

## Non-Attainment Status

Air pollution levels are measured at monitoring stations located throughout the Basin. Areas that are in nonattainment with respect to criteria pollutants are required to prepare plans and implement measures that will bring the region into attainment. Table 2 (South Coast Air Basin Attainment Status) summarizes the attainment status in the non-desert portion of the Basin for the criteria pollutants.<sup>5</sup> The non-desert portion of the Basin is currently in nonattainment status for ozone, inhalable and fine particulate matter, nitrogen dioxide, and lead.

Pollution problems in the Basin are caused by emissions within the area and the specific meteorology that promotes pollutant concentrations. Emissions sources vary widely from smaller sources such as individual residential water heaters and short-term grading activities to extensive operational sources including long-term operation of electrical power plants and other intense industrial uses. Pollutants in the Basin are blown inward from coastal areas by sea breezes from the Pacific Ocean and are prevented from horizontally dispersing due to the surrounding mountains. This is further complicated by atmospheric temperature inversions that create inversion layers. The inversion layer in Southern California refers to the warm layer of air that lies over the cooler air from the Pacific Ocean. This is strongest in the summer and prevents ozone and other pollutants from dispersing upward. A ground-level surface inversion commonly occurs during winter nights and traps carbon monoxide emitted during the morning rush hour.

**Table 2**  
**South Coast Air Basin Attainment Status**

Pollutant	Federal	State
O <sub>3</sub> (1-hr)	--	Nonattainment
O <sub>3</sub> (8-hr)	Nonattainment	Nonattainment
PM <sub>10</sub>	Nonattainment	Nonattainment
PM <sub>2.5</sub>	Nonattainment	Nonattainment
CO	Attainment	Attainment
NO <sub>2</sub>	Attainment	Nonattainment
SO <sub>2</sub>	Attainment	Attainment
Pb	Nonattainment	Nonattainment
VRP	--	Unclassified
SO <sub>4</sub>	--	Attainment
H <sub>2</sub> S	--	Unclassified
Sources: ARB 2014		

### Local Air Quality

The City of El Monte is located within the South Coast Air Basin (SCAB), which is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD). El Monte is located in the South San Gabriel Valley monitoring area known as Source Receptor Area (SRA 11). The air quality in SRA 11 is monitored at Station 85. Air monitoring results for SRA 11 over the last three years of available data are summarized in Table 3 (2010-2012 Local Air Quality).<sup>6 7 8</sup> Note that SO<sub>2</sub> and PM<sub>10</sub>, are not measured at this station. In addition, data for maximum 1-hour concentrations for CO and maximum 24-hour concentrations for SO<sub>4</sub> were not measured in 2011 and 2012, annual arithmetic mean was not measured for PM<sub>2.5</sub> in 2010, and maximum quarterly average for Pb was not measured in 2012. Table 4 (2010-2012 Air Quality Standards Exceedance) summarizes the number of days for each monitoring year that air quality standards were exceeded. Based on the 2010-2012 air quality monitoring data, the South San Gabriel Valley area experiences little ozone pollution and no particulate matter pollution with at most six day per year exceeding ozone standards.

**Table 3**  
**2010-2012 Local Air Quality**

Year	CO (PPM)		O <sub>3</sub> (PPM)		NO <sub>2</sub> (ppb)		SO <sub>2</sub> (ppb)		
	Max 1-hr	Max 8-hr	Max 1-hr	Max 8-hr	Max 1-hr	AAM	Max 1-hr	Max 24-hr	
2012	--	2.2	0.106	0.075	80.8	20.4	--	--	
2011	--	2.4	0.096	0.074	90.6	23.7	--	--	
2010	2	1.9	0.112	0.086	79.0	22.9	--	--	
Year	PM <sub>10</sub> (µg/m <sup>3</sup> )		PM <sub>2.5</sub> (µg/m <sup>3</sup> )		TSP (µg/m <sup>3</sup> )		Pb (µg/m <sup>3</sup> )		SO <sub>4</sub> (µg/m <sup>3</sup> )
	Max 24-hr	AAM	Max 24-hr	AAM	Max 24-hr	AAM	Max Month	Max Qtr	Max 24-hr
2012	--	--	45.3	11.85	91	52.1	0.009	--	--
2011	--	--	41.2	12.5	140	64.4	0.011	0.010	--
2010	--	--	34.9	--	265	86.1	0.02	0.01	8.5

Source: SCAQMD 2010-2012

-- pollutant not monitored  
 ppm, parts per million  
 ppb, parts per billion  
 µg/m<sup>3</sup>, micrograms per cubic meter  
 AAM, annual arithmetic mean

**Table 4**  
**2010-2012 Air Quality Standards Exceedance**

Year	O <sub>3</sub> (PPM)			PM <sub>10</sub> (µg/m <sup>3</sup> )		PM <sub>2.5</sub> (µg/m <sup>3</sup> )
	Fed* 8-hr	State 1-hr	State 8-hr	Fed 24-hr	State 24-hr	Fed^ 24-hr
2012	0	5	6	--	--	1
2011	0	1	1	--	--	1
2010	1	1	1	--	--	0

Source: SCAQMD 2010-2012

-- pollutant not monitored  
 \* 0.075 ppm  
 ^35 µg/m<sup>3</sup>

## Sensitive Receptors

Some populations are more susceptible to the effects of air pollution than the population at large. These susceptible populations are defined as sensitive receptors. Sensitive receptors include children, the elderly, the sick, and the athletic. Land uses associated with sensitive receptors include residences, schools, playgrounds, childcare centers, athletic facilities, long-term health care facilities (including hospitals), rehabilitation centers, convalescent centers, and retirement homes. Pollutants of particular concern to sensitive receptors include carbon monoxide, toxic air contaminants, and odors. Specific sensitive receptors within one-quarter mile of the project site include four schools. The Agape Montessori School located approximately 0.04 miles to the east, the Telstar Montessori Childcare Center located approximately 0.12 miles to the southwest, the K-Step Montessori Childcare located approximately 0.22 miles to the west, and Savannah School located approximately 0.23 miles to the north of the project site.

## Toxic Emission Sources

Toxic air contaminants (TACs) refer to a diverse group of "non-criteria" air pollutants that can affect human health, but do not have established ambient air quality standards. TACs are classified as carcinogenic and noncarcinogenic, where carcinogenic TACs can cause cancer and noncarcinogenic TACs can cause acute and chronic impacts to different target organ systems (e.g., eyes, respiratory, reproductive, developmental, nervous, and cardiovascular). Diesel Particulate Matter (DPM), which is emitted in the exhaust from diesel engines, was listed by the State as a TAC in 1998. DPM has historically been used as a surrogate measure of exposure for all diesel exhaust emissions. DPM consists of fine particles (fine particles have a diameter less than 2.5 µm), including a subgroup of ultrafine particles (ultrafine particles have a diameter less than 0.1 µm). Collectively, these particles have a large surface area which makes them an excellent medium for absorbing organics. The visible emissions in diesel exhaust include carbon particles or "soot." Diesel exhaust also contains a variety of harmful gases and cancer-causing substances. Exposure to DPM may be a health hazard, particularly to children whose lungs are still developing and the elderly who may have other serious health problems. DPM levels and resultant potential health effects may be higher in close proximity to heavily traveled roadways with substantial truck traffic or near industrial facilities.

According to the EPA and California Air Resources Board (CARB), the previous use on the project site has reported toxic releases. There are no existing sources of industrial- or utility-related toxic emissions uses within one-quarter mile of the project site.<sup>9</sup> The nearest toxic emitter to the project site is Thrifty Payless Incorporated Ice Cream Division located at 9200 Telstar Avenue, approximately 0.5 miles southwest of the project site. Thrifty Payless Incorporated Ice Cream Division (SIC 2024, ice cream and frozen desserts) specializes in ice cream and frozen dessert manufacturing. The proposed project does not contain equipment or otherwise attract mobile sources (such as high volume trucks) that could emit high levels of DPM.

## Local Transportation

The proposed project would be located at the southeast corner of Flair Drive and Rio Hondo Avenue. Flair Drive is an east-west roadway that is currently two lanes undivided in the study area. The project traffic study analyzed existing performance at

forty intersections in the project vicinity.<sup>10</sup> 31 intersections studies in the report are operating at LOS D or better during the weekday morning peak hour, weekday afternoon peak hour, and/or the Saturday mid-day peak hour under existing conditions. The remaining study intersections are operating at LOS E or F during the weekday morning peak hour, weekday afternoon peak hour, and/or the Saturday mid-day peak hour under existing conditions.

## **Odors**

According to the CEQA Air Quality Handbook, land uses associated with odor complains include agricultural operations, wastewater treatment plants, landfills, and certain industrial operations (such as manufacturing uses that produce chemicals, paper, etc.). The proposed project is not a use generally associated with substantial odors.

## **Climate Change**

### ***DEFINING CLIMATE CHANGE***

Climate change is the distinct change in measures of climate for a long period of time. Climate change can result from natural processes and from human activities. Natural changes in the climate can be caused by indirect processes such as changes in the Earth's orbit around the Sun or direct changes within the climate system itself (i.e. changes in ocean circulation). Human activities can affect the atmosphere through emissions of gases and changes to the planet's surface. Emissions affect the atmosphere directly by changing its chemical composition, while changes to the land surface indirectly affects the atmosphere by changing the way the Earth absorbs gases from the atmosphere. The term "climate change" is preferred over the term "global warming" because "climate change" conveys the fact that other changes can occur beyond just average increase in temperatures near the Earth's surface. Elements that indicate that climate change is occurring on Earth include:

- Rising of global surface temperatures by 1.3° Fahrenheit (F) over the last 100 years
- Changes in precipitation patterns
- Melting ice in the Arctic
- Melting glaciers throughout the world
- Rising ocean temperatures
- Acidification of oceans
- Range shifts in plant and animal species

Climate change is intimately tied to the Earth's greenhouse effect. The greenhouse effect is a natural occurrence that helps regulate the temperature of the planet. The majority of radiation from the Sun hits the Earth's surface and warms it. The surface in turn radiates heat back towards the atmosphere, known as infrared radiation. Gases and clouds in the atmosphere trap and prevent some of this heat from escaping back into space and re-radiate it in all directions. This process is essential to supporting life on Earth because it keeps the planet approximately 60° F warmer than without it. Emissions from human activities since the beginning of the industrial revolution (approximately 150 years) are adding to the natural greenhouse effect by increasing the gases in the atmosphere that trap heat, thereby contributing to an average increase in the Earth's temperature. Human activities that enhance the greenhouse effect are detailed below.

### **Greenhouse Gases**

The greenhouse effect is caused by a variety of "greenhouse gases". Greenhouse gases (GHGs) occur naturally and from human activities. Greenhouse gases produced by human activities include carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF<sub>6</sub>). Since the year 1750, it is estimated that the concentrations of carbon dioxide, methane, and nitrous oxide in the atmosphere have increased over 36 percent, 148 percent, and 18 percent, respectively, primarily due to human activity. The primary GHGs are discussed below.<sup>11</sup>

**Carbon Dioxide.** CO<sub>2</sub> is emitted and removed from the atmosphere naturally. Animal and plant respiration involves the release of carbon dioxide from animals and its absorption by plants in a continuous cycle. The ocean-atmosphere exchange

results in the absorption and release of CO<sub>2</sub> at the sea surface. Carbon dioxide is also released from plants during wildfires. Volcanic eruptions release a small amount of CO<sub>2</sub> from the Earth's crust.

Human activities that affect carbon dioxide in the atmosphere include burning of fossil fuels, industrial processes, and product uses. Combustion of fossil fuels is the largest source of carbon dioxide emissions in the United States, accounting for approximately 85 percent of all equivalent emissions. Because of the fossil fuels used, the largest of these sources is electricity generation and transportation. When fossil fuels are burned, the carbon stored in them is released into the atmosphere entirely as CO<sub>2</sub>. Emissions from onsite industrial activities also emit carbon dioxide such as cement, metal, and chemical production and use of petroleum produced in plastics, solvents, and lubricants.

**Methane.** Methane (CH<sub>4</sub>) is emitted from human activities and natural sources. Natural sources of methane include wetlands, gas hydrates, permafrost, termites, oceans, freshwater bodies, soils, and wildfires. Human activities that cause methane releases include fossil fuel production, animal digestive processes from farms, manure management, and waste management. It is estimated that 50 percent of global methane emissions are human generated. Wetlands are the primary natural producers of methane in the world because the habitat is conducive to bacteria that produce methane during decomposition of organic material. Methane is produced from landfills as solid waste decomposes. Methane is a primary component of natural gas and is emitted during its production, processing, storage, transmission, distribution, and use. Decomposition of organic material in manure stocks or in liquid manure management systems also releases methane. Releases from animal digestive processes are the primary source of human-related methane.

**Nitrous Oxide.** Anthropogenic (human) sources of nitrous oxide include agricultural soil management, animal manure management, sewage treatment, combustion of fossil fuels, and production of certain acids. N<sub>2</sub>O is produced naturally in soil and water, especially in wet, tropical forests. The primary human-related source of N<sub>2</sub>O is agricultural soil management due to use of synthetic nitrogen fertilizers and other techniques to boost nitrogen in soils. Combustion of fossil fuels (mobile and stationary) is the second leading source of nitrous oxide, although parts of the world where catalytic converters are used (such as California) have significantly lower levels than those areas that do not.

**High Global Warming Potential Gases.** High global warming potential (GWP) gases (or fluorinated gases) are entirely manmade and are mainly used in industrial processes. HFCs, PFCs, and SF<sub>6</sub> are high GWP gases. These types of gases are used in aluminum production, semiconductor manufacturing, electric power transmission, magnesium production and processing, and in the production of hydrochlorofluorocarbon-22 (HCFC-22). High GWP gases are also used as substitutes for ozone-depleting gases like chlorofluorocarbons (CFCs) and halons. Use of high GWP gases as substitutes for ozone-depleting substances is the primary use of these gases in the United States.

**Water Vapor.** It should be noted that water vapor is also a significant GHG in the atmosphere; however, concentration of water vapor in the air is primarily dependent on air temperature and cannot be influenced by humans.

GHGs behave differently in the atmosphere and contribute to climate change in different ways. Some gases have more potential to reflect infrared heat back towards the earth while some persist in the atmosphere longer than others. To equalize the contribution of GHGs to climate change, the Intergovernmental Panel on Climate Change (IPCC) devised a weighted metric to compare all greenhouse gases to carbon dioxide.<sup>12</sup> The weighting depends on the lifetime of the gas in the atmosphere and its radiative efficiency. As an example, over a time horizon of 100-years, emissions of nitrous oxide will contribute to climate change 298 times more than the same amount of emissions of carbon dioxide while emissions of HFC-23 would contribute 14,800 times more than the same amount of carbon dioxide. These differences define a gas's GWP. Table 5 (Global Warming Potential of Greenhouse Gases) identifies the lifetime and GWP of select GHGs. The lifetime of the GHG represents how many years the GHG will persist in the atmosphere. The GWP of the GHG represents the GHG's relative potential to induce climate change as compared to carbon dioxide.

Carbon Sequestration

Carbon sequestration is the process by which plants absorb CO<sub>2</sub> from the atmosphere and store it in biomass like leaves and grasses. Agricultural lands, forests, and grasslands can all sequester carbon dioxide, or emit it. The key is to determine if the land use is emitting carbon dioxide faster than it is absorbing it. Young, fast-growing trees are particularly good at absorbing more than they release and are known as a *sink*. Agricultural resources often end up being sources of carbon release because of soil management practices. Deforestation contributes to carbon dioxide emissions by removing trees, or carbon sinks, that would otherwise absorb CO<sub>2</sub>. Forests are a crucial part of sequestration in some parts of the world, but not much in the United States. Another form of sequestration is geologic sequestration. This is a manmade process that results in the collection and transport of CO<sub>2</sub> from industrial emitters (i.e. power plants) and injecting it into underground reservoirs.

**Table 5  
Global Warming Potential (GWP) of Greenhouse Gases (GHG)**

GHG	Lifetime (yrs)	GWP
Carbon Dioxide	50-200	1
Methane	12	25
Nitrous Oxide	114	298
HFC-23	270	14,800
HFC-134a	14	1,430
HFC-152a	1.4	124
PFC-14	50,000	7,390
PFC-116	10,000	12,200
Sulfur Hexafluoride	3,200	22,800
Source: IPCC 2007 <sup>13</sup>		

**CLIMATE CHANGE AND CALIFORNIA**

Specific, anticipated impacts to California have been identified in the 2009 California Climate Adaptation Strategy prepared by the California Natural Resources Agency (CNRA) through extensive modeling efforts.<sup>14</sup> General climate changes in California indicate that:

- California is likely to get hotter and drier as climate change occurs with a reduction in winter snow, particularly in the Sierra Nevadas
- Some reduction in precipitation is likely by the middle of the century
- Sea-levels will rise up to an estimated 55 inches
- Extreme events such as heat waves, wildfires, droughts, and floods will increase
- Ecological shifts of habitat and animals are already occurring and will continue to occur

It should be noted that changes are based on the results of several models prepared under different climatic scenarios; therefore, discrepancies occur between the projections. The potential impacts of global climate change in California are detailed below.

Public Health and Welfare

Concerns related to public health and climate change includes higher rates of mortality and morbidity, change in prevalence and spread of disease vectors, decreases in food quality and security, reduced water availability, and increased exposure to pesticides. These concerns are all generally related to increase in ambient outdoor air temperature, particularly in summer.

Higher rates of mortality and morbidity could arise from more frequent heat waves at greater intensities. Health impacts associated with extreme heat events include heat stroke, heat exhaustion, and exacerbation of medical conditions such as cardiovascular and respiratory diseases, diabetes, nervous system disorders, emphysema, and epilepsy. Climate change would result in degradation of air quality promoting the formation of ground-level pollutants, particularly ozone. Degradation of

air quality would increase the severity of health impacts from criteria and other air pollutants discussed in Section 4.3 (Air Quality). Temperature increases and increases in carbon dioxide are also expected to increase plant production of pollens, spores, and fungus. Pollens and spores could induce or aggravate allergic rhinitis, asthma, and obstructive pulmonary diseases.

Precipitation projections suggest that California will become drier over the next century due to reduced precipitation and increased evaporation from higher temperatures. These conditions could result in increased occurrences of drought. Surface water reductions will increase the need to pump groundwater, reducing supplies and increasing the potential for land subsidence.

Precipitation changes are also suspected to impact the Sierra snowpack (see "Water Management" herein). Earlier snow melts could coincide with the rainy season and could result in failure of the flood control devices in that region. Flooding can cause property damage and loss of life for those affected. Increased wildfires are also of concern as the State "dries" over time. Wildfires can also cause property damage, loss of life, and injuries to citizens and emergency response services.

Sea-level rises would also threaten human health and welfare. Flood risks will be increased in coastal areas due to strengthened storm surges and greater tidal damage that could result in injury and loss of property and life. Gradual rising of the sea will permanently inundate many coastal areas in the state.

Other concerns related to public health are changes in the range, incidence, and spread of infectious, water-borne, and food-borne diseases. Changes in humidity levels, distribution of surface water, and precipitation changes are all likely to shift or increase the preferred range of disease vectors (i.e. mosquitoes). This could expose more people and animals to potential for vector-borne disease.

#### Biodiversity and Habitat

Changes in temperature will change the livable ranges of plants and animals throughout the state and cause considerable stress on these species. Species will shift their range if appropriate habitat is available and accessible if they cannot adapt to their new climate. If they do not adapt or shift, they face local extirpation or extinction. As the climate changes, community compositions and interactions will be interrupted and changed. These have substantial implications on the ecosystems in the state. Extreme events will lead to tremendous stress and displacement on affected species. This could make it easier for invasive species to enter new areas, due to their ability to more easily adapt. Precipitation changes would alter stream flow patterns and affect fish populations during their life cycle. Sea level rises could impact fragile wetland and other coastal habitat.

#### Water Management

Although disagreement among scientists on long-term precipitation patterns in the State has occurred, it is generally accepted by scientists that rising temperatures will impact California's water supply due to changes in the Sierra Nevada snowpack. Currently, the State's water infrastructure is designed to both gather and convey water from melting snow and to serve as a flood control device. Snowpack melts gradually through spring warming into early summer, releasing an average of approximately 15 million acre-feet of water. The State's concern related to climate change is that due to rising temperatures, snowpack melt will begin earlier in the spring and will coincide with the rainy season. The combination of precipitation and snowmelt would overwhelm the current system, requiring tradeoffs between water storage and flood protection to be made. Reduction in reserves from the Sierra Nevada snowpack is troublesome for California and particularly for Southern California. Approximately 75-percent of California's available water supply originates in the northern third of the state while 80 percent of demand occurs in the southern two-thirds. There is also concern that rising temperatures will result in decreasing volumes from the Colorado River basin. Colorado River water is important to Southern California because it supplies water directly to Metropolitan Water District of Southern California. Water from the Colorado River is also used to recharge groundwater basins in the Coachella Valley.

### Agriculture

California is the most agriculturally productive state in the US resulting in more than 37 billion dollars in revenue in 2008. California is the nation's leading producer of nearly 80 crops and livestock commodities, supplying more than half of the nation's fruit and vegetables and over 90 percent of the nation's production of almonds, apricots, raisin grapes, olives, pistachios, and walnuts. Production of crops is not limited to the Central Valley but also occurs in Southern California. Strawberries and grapes are grown in San Bernardino and Riverside Counties. Orange County and San Diego County also contribute to strawberry production. Cherries are also grown in Los Angeles and Riverside County. Anticipated impacts to agricultural resources are mixed when compared to the potentially increased temperatures, reduced chill hours, and changes in precipitation associated with climate change. For example, wheat, cotton, maize, sunflower, and rice are anticipated to show declining yields as temperatures rise. Conversely, grapes and almonds would benefit from warming temperatures. Anticipated increases in the number and severity in heat waves would have a negative impact on livestock where heat stress would make livestock more vulnerable to disease, infection and mortality. The projected drying trend and changes in precipitation are a threat to agricultural production in California. Reduced water reliability and changes in weather patterns would impact irrigated farmlands and reduce food security. Furthermore, a drying trend would increase wildfire risk. Overall, agriculture in California is anticipated to suffer due to climate change impacts.

### Forestry

Increases in wildfires will substantially impact California's forest resources that are prime targets for wildfires. This can increase public safety risks, property damage, emergency response costs, watershed quality, and habitat fragmentation. Climate change is also predicted to affect the behavior of plant species including seed production, seedling establishment, growth, and vigor due to rising temperatures. Precipitation changes will affect forests due to longer dry periods and moisture deficits and drought conditions that limit seedling and sapling growth. Prolonged drought also weakens trees, making them more susceptible to disease and pest invasion. Furthermore, as trees die due to disease and pest invasion (i.e. the Bark Beetle invasion of the San Bernardino Forest), wildfires can spread more rapidly.

### Transportation and Energy Infrastructure

Higher temperatures will require increased cooling, raising energy production demand. Higher temperatures also decrease the efficiency of distributing electricity and could lead to more power outages during peak demand. Climate changes would impact the effectiveness of California's transportation infrastructure as extreme weather events damage, destroy, and impair roadways and railways throughout the state causing governmental costs to increase as well as impacts to human life as accidents increase. Other infrastructure costs and potential impacts to life would increase due to the need to upgrade levees and other flood control devices throughout the state. Infrastructure improvement costs related to climate change adaptation are estimated in the tens of billions of dollars.

**Exhibit 1  
Regional Context and Vicinity Map**

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**Exhibit 2  
Radius Map**

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The following summarizes Federal, State, and local regulations related to air quality, pollution control, greenhouse gas emissions.

### Clean Air Act

The Federal Clean Air Act (CAA) defines the Environmental Protection Agency's (EPA) responsibilities for protecting and improving the United States air quality and ozone layer.<sup>15</sup> Key components of the CAA include reducing ambient concentrations of air pollutants that cause health and aesthetic problems, reducing emission of toxic air pollutants, and stopping production and use of chemicals that destroy the ozone.

Federal clean air laws require areas with unhealthy levels of ozone, inhalable particulate matter, Carbon monoxide, nitrogen dioxide, and sulfur dioxide to develop State Implementation Plans (SIPs); comprehensive documents that identify how an area will attain NAAQS. Deadlines for attainment were established in the 1990 amendments to the CAA based on the severity of an area's air pollution problem. Failure to meet air quality deadlines can result in sanctions against the State or the EPA taking over enforcement of the CAA in the affected area. SIPs are a compilation of new and previously submitted plans, programs, district rules, and State and Federal regulations. The SCAQMD implements the required provisions of an applicable SIP through its AQMP. Currently, SCAQMD implements the 8-hr Ozone and PM<sub>2.5</sub> SIP in the 2007 AQMP and the PM<sub>10</sub> SIP in the 2003 AQMP. The PM<sub>2.5</sub> SIP is currently being revised by SCAQMD in response to partial disapproval by the EPA. The 2012 Lead SIP for the Los Angeles County portion of SCAB was adopted by the SCAQMD Board on May 4, 2012 and approved by ARB on May 24, 2012 and forwarded to the EPA for approval as a revision to the California SIP.

### California Clean Air Act

The California Clean Air Act (CCAA) of 1988 was enacted to develop plans and strategies for attaining California Ambient Air Quality Standards (CAAQS). The California Air Resources Board (ARB), which is part of the California Environmental Protection Agency (Cal-EPA), develops statewide air quality regulations, including industry-specific limits on criteria, toxic, and nuisance pollutants. The CCAA is more stringent than Federal law in a number of ways including revised standards for PM<sup>10</sup> and ozone and State for visibility reducing particles, sulfates, hydrogen sulfide, and vinyl chloride.

### Toxic Hotspots

State requirements specifically address air toxics issues through Assembly Bill (AB) 1807 (known as the Tanner Bill) that established the State air toxics program and the Air Toxics Hot Spots Information and Assessment Act (AB 2588). The air quality regulations developed from these bills have been modified recently to incorporate the Federal regulations associated with the Federal Clean Air Act Amendments of 1990. The Air Toxics Hot Spots Information and Assessment Act (Hot Spots Act) was enacted in September 1987. Under this bill, stationary sources of emissions are required to report the types and quantities of certain substances that their facilities routinely release into the air.

The SCAQMD is required to prepare an annual report on the status and forecast of air toxic "hot spots" pursuant to Section 44363 of the California Health and Safety Code. SCAQMD monitors facilities that are not exempt from the fee and reporting requirements of AB2588.

Some facilities are covered under "umbrella" permits that address industry-wide categories. SCAQMD has issued general permits for the following seven activities:

- Retail gasoline dispensing
- Perchloroethylene dry cleaning
- Auto body shops
- Fiberglass molding
- Printing

- Metal plating
- Wood striping and finishing

Emissions inventories and risk assessment guidelines have been prepared for the seven industry-wide categories. Approximately 1,400 auto body shops, 3,200 gasoline stations, and 1,400 perchloroethylene dry cleaners within the District are covered under these umbrella permits.

Depending on the severity of the facilities' TAC releases, SCAQMD requires either public notification of toxic hot spots or preparation of a risk reduction plan, as follows:

Action Risk Level	Cancer Risk (per million)	Acute Risk	Chronic Risk
Public Notification Level	$\geq 25$	$\geq 3.0$	$\geq 3.0$
Exempt	$\geq 10$	$\geq 1.0$	$\geq 1.0$
	$< 1$	$< 0.1$	$< 0.1$

## 2012 Air Quality Management Plan

The purpose of an Air Quality Management Plan (AQMP) is to bring an air basin into compliance with federal and state air quality standards and is a multi-tiered document that builds on previously adopted AQMPs.<sup>16</sup> The 2003 AQMP was adopted in August 2003 and demonstrated O<sub>3</sub> and PM<sub>10</sub> for the Basin. It also provides the maintenance plans for CO and NO<sub>2</sub>, which the Basin has been in attainment for since 1997 and 1992, respectively. The 2007 AQMP for the Basin was approved by the SCAQMD Board of Directors in June 2007. The 2007 AQMP builds on the 2003 AQMP and is designed to address the federal 8-hour ozone and PM<sub>2.5</sub> air quality standards. The AQMP identifies short- and long-term control measures designed to reduce stationary, area, and mobile source emissions, organized into four primary components:

1. District Stationary and Mobile Source Control Measures
2. Air Resources Board (ARB) State Strategy
3. Supplement to ARB Control Strategy
4. SCAG Regional Transportation Strategy and Control Measures

The 2012 AQMP was adopted by the SCAQMD board on December 7, 2012. The 2012 AQMP incorporated the latest scientific and technological information and planning assumptions, including the 2012 Regional Transportation Plan/Sustainable Communities Strategy and updated emission inventory methodologies for various source categories. The 2012 AQMP includes the new and changing federal requirements, implementation of new technology measures, and the continued development of economically sound, flexible compliance approaches. The SCAQMD is currently initiating an early development process for preparation of the 2016 AQMP.

## SCAQMD Rule Book

In order to control air pollution in the Basin, SCAQMD adopts rules that establish permissible air pollutant emissions and governs a variety of businesses, processes, operations, and products to implement the AQMP and the various federal and state air quality requirements. SCAQMD does not adopt rules for mobile sources; those are established by ARB or the United States Environmental Protection Agency (EPA). Rules that will be applicable during construction of the proposed warehouse include Rule 403 (Fugitive Dust) and Rule 1113 (Architectural Coatings). Rule 403 prohibits emissions of fugitive dust from any grading activity, storage pile, or other disturbed surface area if it crosses the project property line or if emissions caused by vehicle movement cause substantial impairment of visibility (defined as exceeding 20 percent opacity in the air). Rule 403 requires the implementation of Best Available Control Measures (BACM) and includes additional provisions for projects disturbing more than five acres and those disturbing more than fifty acres. Rule 1113 establishes maximum concentrations of VOCs in paints and other applications and establishes the thresholds for low-VOC coatings.

## Executive Order S-3-05

Executive Order S-3-05 was issued by California Governor Arnold Schwarzenegger and established targets for the reduction of greenhouse gas emission at the milestone years of 2010, 2020, and 2050. Statewide GHG emissions must be reduced to 1990 levels by year 2020 and by 80 percent beyond that by year 2050. The Order requires the Secretary of the California Environmental Protection Agency (CalEPA) to coordinate with other State departments to identify strategies and reduction programs to meet the identified targets. A Climate Action Team (CAT) was created and is headed by the Secretary of CalEPA who reports on the progress of the reduction strategies. The latest CAT *Biennial Report to the Governor and Legislature* was completed in April 2010.<sup>17</sup> CAT also works in 11 subgroups to support development and implementation of the Scoping Plan (see “California Global Warming Solutions Act” herein).

## California Global Warming Solutions Act

The California State Legislature adopted the California Global Warming Solutions Act in 2006 (AB32). AB32 establishes the caps on statewide greenhouse gas emissions proclaimed in Executive Order S-3-05 and establishes a regulatory timeline to meet the reduction targets. The timeline is as follows:

January 1, 2009	Adopt Scoping Plan
January 1, 2010	Early action measures take effect
January 1, 2011	Adopt GHG reduction measures
January 1, 2012	Reduction measures take effect
December 31, 2020	Deadline for 2020 reduction target

As part of AB32, CARB had to determine what 1990 GHG emissions levels were and projected a business-as-usual (BAU) estimate for 2020 to determine the amount of GHG emissions that will need to be reduced. BAU is a term used to define emissions levels without considering reductions from future or existing programs or technologies. 1990 emissions are estimated at 427 million metric tons of carbon dioxide equivalent (MMTCO<sub>2</sub>E) while 2020 emissions (after accounting for the economic downturn in 2008 and implementation of Pavley 1 vehicle emissions reductions and the State Renewable Portfolio Standard identified in Air Resources Board Scoping Plan below) are estimated at 507 MMTCO<sub>2</sub>E; therefore, California GHG emissions must be reduced 80 MMTCO<sub>2</sub>E (507 – 427 = 80) by 2020, a reduction of approximately 16 percent below BAU. Emissions are required to be reduced an additional 80 percent below 1990 levels by 2050.

## Sustainable Communities and Climate Protection Act

In January 2009, California Senate Bill (SB) 375 went into effect known as the Sustainable Communities and Climate Protection Act.<sup>18</sup> The objective of SB375 is to better integrate regional planning of transportation, land use, and housing to reduce sprawl and ultimately reduce greenhouse gas emissions and other air pollutants. SB375 tasks ARB to set greenhouse gas reduction targets for each of California’s 18 regional Metropolitan Planning Organizations (MPOs). Each MPO is required to prepare a Sustainable Communities Strategy (SCS) as part of their Regional Transportation Plan (RTP). The SCS is a growth strategy in combination with transportation policies that will show how the MPO will meet its GHG reduction target. If the SCS cannot meet the reduction goal, an Alternative Planning Strategy (APS) may be adopted that meets the goal through alternative development, infrastructure, and transportation measures or policies.

In the Southern California Association of Governments (SCAG) region (in which the proposed project is located), sub-regions can also elect to prepare their own SCS or APS. In August 2010, ARB released the proposed GHG reduction targets for the MPOs to be adopted in September 2010. The proposed reduction targets for the SCAG region were 8-percent by year 2020 and 13-percent by year 2035. The 8-percent year 2020 target was adopted in September 2010 and tentatively adopted the year 2035 until February 2011 to provide additional time for SCAG, ARB, and other stakeholders to account for additional

resources (such as state transportation funds) needed to achieve the proposed targets. In February 2011, the SCAG President affirmed the year 2035 reduction target and SCAG Staff updated ARB on additional funding opportunities.

## Air Resources Board Scoping Plan

The ARB Scoping Plan is the comprehensive plan to reach the GHG reduction targets stipulated in AB32. The key elements of the plan are to expand and strengthen energy efficiency programs, achieve a statewide renewable energy mix of 33 percent, develop a cap-and-trade program with other partners in the Western Climate Initiative (includes seven states in the United States and four territories in Canada), establish transportation-related targets, and establish fees.<sup>19</sup> The Scoping Plan measures are identified in Table 6 (Scoping Plan Measures). Note that the current early discrete actions are incorporated into these measures. ARB estimates that implementation of these measures will reduce GHG emissions in the state by 174 MMTCO<sub>2</sub>E by 2020; therefore, implementation of the Scoping Plan will meet the 2020 reduction target. In a report prepared on September 23, 2010, ARB indicates that 40 percent of the reduction measures identified in the Scoping Plan have been secured.<sup>20</sup> The cap-and-trade program began on January 1, 2012 after ARB completes a series of activities that deal with the registration process, compliance cycle, and tracking system; however, covered entities will not have an emissions obligation until 2013.<sup>21</sup> ARB is currently working on the low carbon fuel standard where public hearings and workshops are currently being conducted. In August 2011, the Scoping plan was reapproved by the ARB Board with the program's environmental documentation.

The ARB has prepared the First Update to the Scoping Plan (Update) with a draft made available for public review on February 10, 2014. The Update to the Scoping Plan builds upon the 2008 Scoping Plan with new strategies and recommendations. The Update identifies opportunities to leverage existing and new funds to further drive GHG emission reductions through strategic planning and targeted low carbon investments. The Update defines ARB's climate change priorities for the next five years and sets the groundwork to reach post-2020 goals set forth in Executive Orders S-3-05 and B-16-2012. The Update highlights California's progress toward meeting the 2020 GHG emission reduction goals defined in the 2008 Scoping Plan. It also evaluates how to align the State's long-term GHG reduction strategies with other State policy priorities for water, waste, natural resources, clean energy, transportation, and land use. A draft Environmental Analysis (EA) was released for a 45-day public review period on March 14, 2014. After considering public comments and Board direction, the final First Update, summary of comments received on the draft EA, and ARB's responses to those comments were released on May 15, 2014. The First Update to the Scoping Plan was approved by the Board on May 22, 2014.

## Water Conservation in Landscaping Act

Section 65591 of the Government Code requires all local jurisdictions to adopt a water efficient landscape ordinance. The ordinance is to address water conservation through appropriate use and grouping of plants based on environmental conditions, water budgeting to maximize irrigation efficiency, storm water retention, and automatic irrigation systems. Failure to adopt a water efficiency ordinance requires a local jurisdiction to enforce the provisions of the State's model water efficiency ordinance. In 2009, the Department of Water Resources (DWR) updated the Model Water Efficient Landscape Ordinance pursuant to amendments to the 1991 Act. These amendments and the new model ordinance went into effect on January 1, 2010. The amended Act is applicable to any new commercial, multi-family, industrial or tract home project containing 2,500 square feet (SF) or more of landscaping. Individual landscape projects of 5,000 SF or more on single-family properties will also be subject to the Act. All landscape plans are required to include calculations verifying conformance with the maximum applied water allowance and must be prepared and stamped by a licensed landscape architect.

## California Green Building Standards

New California Green Building Standards Code (CALGREEN) went into effect on January 1, 2011.<sup>22</sup> The purpose of the new addition to the California Building Code (CBC) is to improve public health, safety, and general welfare by enhancing the design and construction of buildings using concepts to reduce negative impacts or produce positive impacts on the environment. The CALGREEN regulations cover planning and design, energy efficiency, water efficiency and conservation, material conservation and resources efficiency, and environmental quality. Many of the new regulations have the effect of reducing greenhouse gas emissions from the operation of new buildings. Table 7 (CALGREEN Requirements) summarizes the

previous requirements of the CBC and the new requirements of CALGREEN that went into effect in January 2011. Minor technical revisions and additional requirements went into effect in July 2012. The Code was further updated in 2013, effective January 1, 2014 through 2016.

**Table 6**  
**Scoping Plan Measures**

Measure	Description
T-1	Pavely I and II – Light Duty Vehicle Greenhouse Gas Standards
T-2	Low Carbon Fuel Standard
T-3	Regional Transportation-Related Greenhouse Gas Targets
T-4	Vehicle Efficiency Measures
T-5	Ship Electrification at Ports
T-6	Good Movement Efficiency Measures
T-7	Heavy-Duty Vehicle Aerodynamic Efficiency
T-8	Medium and Heavy-Duty Vehicle Hybridization
T-9	High Speed Rail
E-1	Energy Efficiency (Electricity Demand Reduction)
E-2	Increase Combined Heat and Power Use
E-3	Renewable Portfolio Standard
E-4	Million Solar Roofs
CR-1	Energy Efficiency (Natural Gas Demand Reduction)
CR-2	Solar Water Heating
GB-1	Green Buildings
W-1	Water Use Efficiency
W-2	Water Recycling
W-3	Water System Energy Efficiency
W-4	Reuse Urban Runoff
W-5	Increase Renewable Energy Production
W-6	Public Good Charge (Water)
I-1	Energy Efficiency for Large Industrial Sources
I-2	Oil and Gas Extraction GHG Reductions
I-3	Oil and Gas Transmission Leak Reductions
I-4	Refinery Flare Recovery Process Improvements
I-5	Removal of Methane Exemption from Existing Refinery Regulations
RW-1	Landfill Methane Control
RW-2	Increase Landfill Methane Capture Efficiency
RW-3	Recycling and Zero Waste
F-1	Sustainable Forest Target
H-1	Motor Vehicle Air Conditioning
H-2	Non-Utilities and Non-Semiconductor SF <sub>6</sub> Limits
H-3	Semiconductor Manufacturing PFC Reductions
H-4	Consumer Products High GWP Limits
H-5	High GWP Mobile Source Reductions
H-6	High GWP Stationary Source Reductions
H-7	High GWP Mitigation Fees
A-1	Large Dairy Methane Capture
Source: ARB 2008 <sup>23</sup>	

**Table 7  
CALGREEN Requirements**

Item		Requirements	
		Previous	CALGREEN
4.1	Stormwater Management	Stormwater management required on projects > than one acre	All projects subject to stormwater management.
	Surface Drainage	Surface water must flow away from building	Drainage patterns must be analyzed
4.2	Energy Efficiency	California Energy Code	Minimum energy efficiency to be established by California Energy Commissions
4.3	Indoor Water Use	HCD maximum flush rates; CEC water use standards for appliances and fixtures	Indoor water use must decrease by at least 20 percent (prescriptive or performance based)
	Multiple Showerheads	Not covered	Multiple showerheads cannot exceed combined flow of the code
	Irrigation Controllers	Not covered	Irrigation controllers must be weather or soil moisture based controllers
4.4	Joint Protection	Plumbing and Mechanical Codes	All openings must be sealed with materials that rodents cannot penetrate
	Construction Waste	Local Ordinances	Establishes minimum 50 percent recycling and waste management plan
	Operation	Plumbing Code for gray water systems	Educational materials and manuals must be provided to building occupants and owners to ensure proper equipment operation
4.5	Fireplaces	Local Ordinances	Gas fireplaces must be direct-vent sealed-combustion type; Wood stoves and pellet stoves must meet USEPA Phase 2 emissions limits
	Mechanical Equipment	Not covered	All ventilation equipment must be sealed from contamination during construction
	VOCs	Local Ordinances	Establishes statewide limits on VOC emissions from adhesives, paints, sealants, and other coatings
	Capillary Break	No prescriptive method of compliance	Establishes minimum requirements for vapor barriers in slab on grade foundations
	Moisture Content	Current mill moisture levels for wall and floor beams is 15-20 percent	Moisture content must be verified prior to enclosure of wall or floor beams
	Whole House Fans	Not covered	Requires insulated louvers and closing mechanism when fan is off
	Bath Exhaust Fans	Not covered	Requires Energy Star compliance and humidistat control
7	HVAC Design	Minimal requirements for heat loss, heat gain, and duct systems	Entire system must be designed in respects to the local climate
	Installer Qualifications	HVAC installers need not be trained	HVAC installers must be trained or certified
	Inspectors	Training only required for structural materials	All inspectors must be trained

Source: HCD 2010

## PROJECT DESCRIPTION

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The proposed project is located on approximately 14.66 acres. The proposed project includes the construction of a mixed-use development. The proposed development will include two 18-story residential buildings with a combined 600 dwelling units above a seven-story parking structure (one level below-grade) on the east and west sides of the project site. Additionally, shared common outdoor space will be provided for residents in the form of a "green deck" on the roof of the residential parking structure between the two residential buildings. The development will also include 640,000 square feet of retail space on two floors as well as 50,000 square feet of restaurant space located on the third floor roof deck. Below the retail development is one level of below-grade parking. Also included in the development is an eleven-story hotel with 250 rooms above two levels of below-grade parking. Flair Drive is a 45-foot wide, two-lane, undivided roadway. The project includes the widening of Flair Drive to 63 feet to provide public sidewalks and parkway. Rio Hondo Avenue is a 60-foot wide, two-lane, undivided roadway. The project includes the widening of Rio Hondo Avenue to 90 feet to provide public sidewalks and parkway.

### Construction Program

Phase 1 will begin January 2015 and includes construction of the hotel, retail and restaurant uses, hotel and retail parking structures, basement through level four of the parking below residential, paving of internal roadways, and landscaping. Phase 2 will begin in October 2017 and includes the construction of two 19-story residential towers and the remaining two levels of parking. It is estimated that the hotel, retail, paving, landscaping, and associated parking will take approximately 21 months to complete and the residential use and associated parking will take approximately 21 months to complete. Phase 1 includes the export of approximately 187,188 cubic yards of soil to account for one level of below-grade parking below the retail use, two levels of below-grade parking below the hotel, and one level of below-grade parking for the parking structure below the residential towers, as well as other factors including clarifier removal and deleterious materials.

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**Exhibit 3  
Site Plan**

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The impact analysis contained herein was prepared utilizing guidance provided in the 1993 SCAQMD California Environmental Quality Act (CEQA) Air Quality Handbook. The thresholds identified in Appendix G of the State CEQA Guidelines, as implemented by the City of El Monte, have been utilized to determine the significance of potential impacts.

### Thresholds of Significance

In accordance with Appendix G of the State CEQA Guidelines and the local implementation procedures of the City of El Monte, the proposed project could result in potentially significant impacts related to air quality if it:

- A. Conflicts with or obstructs implementation of the applicable air quality plan.
- B. Violates any air quality standard or contributes substantially to an existing or projected air quality violation.
- C. Results in a cumulatively considerable net increase of any criteria pollutant that the region in non-attainment under an applicable Federal or State ambient air quality standard (including releasing emissions that exceed quantitative thresholds for ozone precursors).
- D. Exposes sensitive receptors to substantial pollutant concentrations.
- E. Create objectionable odors affecting a substantial number of people.

To determine if maximum daily criteria pollutant emissions from construction and operation of the proposed project are significant, the SCAQMD significance thresholds are used. These thresholds are identified in Table 8 (SCAQMD Maximum Daily Emissions Thresholds).

**Table 8**  
**SCAQMD Maximum Daily Emissions Thresholds (lbs/days)**

Pollutant	Construction	Operation
NO <sub>x</sub>	100	55
VOC/ROG	75	55
PM <sup>10</sup>	150	150
PM <sup>2.5</sup>	55	55
SO <sub>x</sub>	150	150
CO	550	550
Lead	3	3
Source: SCAQMD 2011		

### AQMP Consistency

A significant impact could occur if the proposed project conflicts with or obstructs the implementation of South Coast Air Basin 2012 Air Quality Management Plan. Conflicts and obstructions that hinder implementation of the AQMP can delay efforts to meet attainment deadlines for criteria pollutants and maintain existing compliance with applicable air quality standards. Pursuant to the methodology provided in Chapter 12 of the 1993 SCAQMD CEQA Air Quality Handbook, consistency with the South Coast Air Basin 2012 Air Quality Management Plan (AQMP) is affirmed when a project (1) does not increase the frequency or severity of an air quality standards violation or cause a new violation and (2) is consistent with the growth assumptions in the AQMP.<sup>24</sup> Consistency review is presented below:

1. As discussed under herein, the proposed project would result in short-term construction emissions that are less than the CEQA significance emissions thresholds established by the SCAQMD, as demonstrated in this report (as shown in Tables 9 through 13 below). The proposed project will result in operational emissions that will exceed the daily threshold for NO<sub>x</sub> and particulate matter emissions and therefore will incrementally contribute to an increase in the frequency and severity of existing air quality standards violations for which the area is nonattainment (as shown in Tables 9 through 13 below). The project will also result in CO emissions that are in excess of the SCAQMD daily threshold; however, the Basin is in attainment for this criteria pollutant and no individual project could cause a new violation for this or any criteria

pollutant because they are regional problems caused by the broad combination of short- and long-term emissions sources.

2. The CEQA Air Quality Handbook indicates that consistency with AQMP growth assumptions must be analyzed for new or amended General Plan elements, Specific Plans, and *significant projects*. *Significant projects* include airports, electrical generating facilities, petroleum and gas refineries, designation of oil drilling districts, water ports, solid waste disposal sites, and off-shore drilling facilities; therefore, the proposed project is not defined as *significant*. The proposed project includes a General Plan amendment to designate the project site as the Flair Spectrum Specific Plan Area and therefore requires consistency analysis with the AQMP.

The 2012 Census indicated that the City had a population of 115,111. The SCAG Regional Transportation Plan /Sustainable Communities Strategy (RTP/SCS) projects an estimated population of 140,100 for El Monte by 2035, an increase of 24,989 residents. The proposed project would result in the addition of 600 dwelling units, resulting in a net increase of 1,765 residents. This increase is within the growth assumptions estimated by SCAG and thus would be consistent with regional growth projections.

Based on the consistency analysis presented above, the proposed project will conflict with the AQMP. As discussed herein, reasonable mitigation was considered and incorporated to reduce criteria pollutant emissions from operation of the project; however, impacts remain significant and unavoidable. Because the project will result in significant and unavoidable operational air quality impacts, conflicts with the AQMP cannot be avoided and associated impacts will be significant and unavoidable.

## **Construction Emissions**

Short-term criteria pollutant emissions will occur during on-site site clearing, grading, building construction, paving, and architectural coating activities. Emissions will occur from use of construction equipment, worker, vendor, and hauling trips, and disturbance of on-site soils in the form of fugitive dust. To determine if construction of the proposed project could result in a significant air quality impact, the California Emissions Estimator Model (CalEEMod) has been utilized.

The construction program was developed based on input from the project contractor in conjunction with CalEEMod construction survey defaults. Surface ground disturbance, based on the project site plan, was input at 1.87 acres for on-site paving, 0.50 acres for improvements to Flair Drive, 0.69 acres for improvements to Rio Hondo Avenue, 0.62 acres for the footprint of the hotel, and 7.20 acres for the footprint of the shopping center (what about residential footprint?). The proposed hotel subsurface parking structure will be constructed first, followed by the hotel building. Grading for the retail subsurface parking structure will proceed concurrently with construction of the hotel. Similarly, grading for the residential subsurface and surface parking structure will occur concurrently with construction of the outlet mall and restaurants. All on-site paving is assumed to be completed after completion of the hotel, concurrently with construction of both the outlet mall and residential parking structure.

Construction phase lengths were estimated using CalEEMod construction survey data. CalEEMod survey data is based on project site size and provides estimates for equipment needs based on lot acreage. project site size and provides estimates for equipment needs based on lot acreage. Because of the vertical nature of the proposed project, construction phase lengths were extended based on a presumed horizontal lot size for each component of the project. For example, construction of the outlet mall and restaurants is estimated to take 300 working days based on survey data for a project size of 15 acres because the total area to be constructed for these uses is 690,000 square feet. Construction equipment estimates were developed the same way for construction of most project components; however, construction of the parking structures includes use of cement mixers and concrete pumps considering they will likely be constructed using the cast-in-place reinforced concrete construction method. Excavators were added to grading activities to account for the need to dig for subsurface parking. The construction phase length for the parking structures was estimated based on the use of concrete pump trucks that can pump 235 cubic yards per hour over a six hour daily period where 0.17 cubic yards equates to completion of one square foot of parking structure, based on case study information.<sup>25</sup>

According to the project civil engineer, approximately 245,310 cubic yards (CY) of on-site soil will need to be cut and 58,122 CY of fill will be required, leaving 187,188 CY of soil to export from the site. The project contractor estimates an average of 1,750 CY of soil can be moved a day using 15 CY capacity bottom dump trucks. It is estimated that 61,054 CY will be exported from grading for the hotel subsurface parking structure, 79,016 CY will be exported from the outlet mall subsurface parking area (after consideration on-site fill requirements), and 47,118 CY will be exported from the residential parking structure area. Based on the hauling capabilities provided by the project contractor, approximately 125 hauling trips per day will be required to export soils during each grading phase.

The project contractor indicated that there would be an approximate maximum of 100 workers per day during construction of the hotel, 85 workers during construction of the outlet mall, and 150 workers during construction of the residential towers. The project contractor also indicated that approximately eight daily vendor trips would occur during building construction. These estimates are included as inputs into CalEEMod. Default CalEEMod worker trips were used for all other phases.

Interior and exterior surfaces to be painted or otherwise coated in the hotel, outlet mall, and residential buildings were calculated using the methodology provided in the SCAQMD CEQA Air Quality Handbook. Based on the total floor area of the hotel, 284,730 square feet (SF) of interior surfaces will be coated and 94,910 SF of exterior surfaces will be coated. The outlet mall is estimated to have 1,035,000 SF of interior surfaces coated and 345,000 SF of exterior surfaces will be coated. The residential towers are estimated to have 1,852,713 SF of interior surfaces coated and 617,571 SF of exterior surfaces coated.

Based on the results of the model, maximum daily emissions from the construction of Phase 1 will result in excessive emissions of volatile organic chemicals (VOCs) (identified as reactive organic gases or ROGs) associated with interior and exterior coating activities and NO<sub>x</sub> from equipment usage. Using the default assumptions of 250 grams per liter (g/l) VOC content for non-residential interior and exterior coatings, daily VOC emissions will reach 805 lbs/day in 2016 for Phase 1 that exceeds the SCAQMD district threshold of 75 lbs/day. Using the default assumptions of 50 g/l VOC content for residential interior and 100 g/l for residential exterior coatings, daily VOC emissions will reach 358 lbs/day for Phase 2.

To compensate for excessive ROG emissions from coating activities, the model includes use of a maximum zero grams per liter (g/l) VOC content for interior and exterior coatings. Use of low-VOC coatings during construction activities will reduce VOC emissions to a maximum of 15 lb/day (occurring in year 2015) during Phase 1 (without Tier IV engine reductions discussed below) and a maximum of four lbs/day for Phase 2 (in year 2017), both less than the 75 lbs/day threshold established by SCAQMD (see Table 9, Phase 1 Daily Construction Emissions (lbs/day) and Table 10 (Phase 2 Daily Construction Emissions (lbs/day))). Another option for mitigating excessive VOC emission from painting activities is to minimize the amount of coating application that can occur during the day. The requirement to reduce VOC emissions from coating applications has been included as Mitigation Measure 4.2.B-1. With implementation of Mitigation Measure 4.2.B-1, emissions of VOC will not exceed the SCAQMD daily construction threshold.

Construction of Phase 1 exceeds SCAQMD thresholds for oxides of nitrogen (NO<sub>x</sub>). There are a variety of ways to reduce NO<sub>x</sub> emissions from construction activities to meet the SCAQMD daily threshold. The primary methods are limiting daily use and duration of construction equipment, use of newer or higher efficiency equipment, and limiting the amount of earthwork per day. In order to analyze reductions in emissions of NO<sub>x</sub> from construction equipment during construction activities, CalEEMod was run with implementation of Tier IV (Final) emission standards for all off-road construction equipment. Tier IV emissions standards are established by the EPA for emissions of hydrocarbons, oxides of nitrogen, carbon monoxide, and particulate matter in off-road diesel engines.<sup>26</sup> The final rule (40 CFR 89, Federal Register Document 96-32970) for off-road engine emissions began in 1996 as part of a "tiered" system by which new engines must meet that year's emissions standards. Standards vary between years, based on the horsepower of the engine. Tier I standards were in place generally between 1996 and 2005. Tier II standards were phased in between 2001 through 2010. Tier III standards were phased in starting in 2006 and are currently applicable to engines with a horsepower between 75 and 174. Interim Tier IV and Tier IV standards have been established for future engines through 2020. Full compliance with Tier IV standards needed to be demonstrated by October 1, 2014. Mitigation Measure 4.2.B-2 requires that the project contractor develop a construction program that will not cause the daily NO<sub>x</sub> threshold to be exceeded through scheduling and/or off-road equipment management. With

implementation of Mitigation Measure 4.2.B-2, emissions from Phase 1 construction activities will not exceed the SCAQMD daily threshold for NO<sub>x</sub>.

**Table 9**  
**Phase 1 Daily Construction Emissions (lbs/day)**

Source	ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>UNMITIGATED</b>						
<i>Summer</i>						
2015	15	<b>138</b>	115	<1	21	13
2016	<b>805</b>	93	83	<1	10	7
<i>Winter</i>						
2015	15	<b>139</b>	120	<1	21	13
2016	<b>805</b>	93	82	<1	10	7
<b>Threshold</b>	<b>75</b>	<b>100</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
Substantial?	Yes	Yes	No	No	No	No
<b>MITIGATED</b>						
<i>Summer</i>						
2015	5	44	106	<1	18	10
2016	4	10	80	<1	4	1
<i>Winter</i>						
2015	5	46	120	<1	21	13
2016	4	10	82	<1	10	7
<b>Threshold</b>	<b>75</b>	<b>100</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
Substantial?	No	No	No	No	No	No

**Table 10**  
**Phase 2 Daily Construction Emissions (lbs/day)**

Source	ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>UNMITIGATED</b>						
<i>Summer</i>						
2017	4	28	30	<1	4	2
2018	2	12	16	<1	2	1
2019	<b>358</b>	11	16	<1	2	1
<i>Winter</i>						
2017	4	28	29	<1	4	2
2018	2	12	16	<1	2	1
2019	358	11	15	<1	2	1
<b>Threshold</b>	<b>75</b>	<b>100</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
Substantial?	Yes	No	No	No	No	No
<b>MITIGATED</b>						
<i>Summer</i>						
2017	4	28	30	<1	4	2
2018	2	12	16	<1	2	1
2019	2	11	16	<1	2	1
<i>Winter</i>						
2017	4	28	29	<1	4	2
2018	2	12	16	<1	2	1
2019	2	11	15	<1	2	1
<b>Threshold</b>	<b>75</b>	<b>100</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
Substantial?	No	No	No	No	No	No

## Operational Emissions

Long-term criteria air pollutant emissions will result from the operation of the proposed hotel, retail, restaurant, and residential uses. Long-term emissions are categorized as area source emissions, energy demand emissions, and operational emissions. Operational emissions will result from automobile and other vehicle sources associated with daily trips to and from the project. The California Emissions Estimator Model (CalEEMod) was utilized to estimate mobile source emissions. Trip generation is based on project trip generation estimated in the project traffic study prepared by Linscott, Law & Greenspan Engineers.<sup>27</sup> 100 percent of trips are assumed to be generated by the project, as opposed to assuming some amount of diverted or pass-by trips. Pass-by trips are made as intermediate stops between a trip origin and destination. Diverted trips occur when a project is not along an individual's routine and the driver changes their route to go to the project. Default trip lengths, fleet mix, and emissions factors are utilized. Area source emissions are the combination of many small emission sources that include use of outdoor landscape maintenance equipment, use of consumer products such as cleaning products, and periodic repainting of the proposed project. Energy demand is based on default CalEEMod electricity and natural gas demand assumptions. Operational source emissions were modeled under year 2017 for Phase 1 and 2019 for Phase 1 and 2 (total project). Phase 1 will be operational before and during the construction of Phase 2. The results of the CalEEMod model for Phase 1 operation for summer and winter conditions are summarized in Table 11 (Phase 1 Long-Term Daily Emissions). Table 12 (Total Project Long-Term Daily Emissions) summarizes the results of the CalEEMod model for total project operation for summer and winter conditions.

Based on the results of the model, the maximum daily operational emissions associated with the proposed project will exceed SCAQMD thresholds for VOC (ROG), NO<sub>x</sub>, CO, and particulate matter for Phase 1 operations. Mobile sources are the primary source of criteria pollutant emissions. Project design features and regulatory requirements were considered to reduce operational emissions of criteria pollutants. Because of the mixed use character of the proposed hotel, outlet mall, and residential development, the project traffic study recognizes the inherent reduction in vehicles trips that mixed-use

developments support.<sup>28</sup> The traffic study includes a 15 percent reduction in trips due to the internal capture of trips, walkability, and availability of transit. Furthermore, the traffic study recognizes reductions related to *pass-by* behavior. Pass-by trips are made as intermediate stops between a trip origin and destination. These reductions were incorporated into CalEEMod as a project design feature. Note that the condominiums do not generate pass-by trips because they are not a commercial or other non-residential use.

Mitigation and project design features were evaluated based on land use, site enhancement, and commute reduction options associated with the project. The project will substantially increase density and intensity on the currently vacant project site. Employment for the proposed outlet mall/restaurants and hotel are estimated at 1,799 employees based on the Southern California Association of Governments Employment Density Study (one employee per 424 square feet of retail and service area) and estimates provided by the Project Proponent (0.688 employees per hotel room).<sup>29 30</sup> With a project site of 14.66 acres, the project will generate an employment intensity of 122.7 jobs per acre. According to the California Association of Pollution Control Officers Association *Quantifying Greenhouse Gas Mitigation Measures* (mitigation measure LUT-1), increasing density above 7.6 dwelling units per acre and intensity above 20 jobs per job acre can result in a reduction in vehicle miles traveled between 0.8 and 30 percent. The project will also increase the proximity of jobs to a regional jobs center. Identified as destination accessibility (identified by CAPCOA as land use mitigation measure LUT-4), the availability of jobs and other attractions can reduce vehicle miles traveled between 6.7 and 20 percent. These features were incorporated into CalEEMod as a project design feature.

Pursuant to Chapter 5.92 of the El Monte Municipal Code, the project will be subject to the incorporation of transportation demand management measures as a nonresidential development over 100,000 square feet (see Section 5.92.020.B.3 et seq). The list of measures that will be required to be incorporated into the project is extensive and includes a rideshare program, bicycle facilities, pedestrian access, transit improvements, and information dissemination. Considering the number of measures that will be implemented, these requirements were input into CalEEMod as a *voluntary* commute reduction program. The program is considered voluntary both because the Municipal Code does not require compliance by employees nor is it possible for the City or property owner/management company to effectively enforce such measures considering the number of employees and businesses that will occupy the outlet mall, restaurants, and hotel. Based on the CAPCOA research (identified by CAPCOA as transportation mitigation measure TRT-1), voluntary commute trip reduction programs can result in a decrease in vehicle miles traveled between one and 6.2 percent.

The above project design features and regulatory requirements characterize the extent of reasonable mitigation that can be applied to the proposed project to reduce mobile sources. It should be noted that SCAQMD includes recommended mitigation measures on its website for fugitive dust, greenhouse gases, harbor craft, locomotives, ocean going vessels, off-road engines, and on-road engines. Mitigation related to on-road engines was considered; however, these apply only to trucks and the proposed project, not being a use that directly generates truck traffic, cannot be conditioned to control emissions from trucks visiting the site. No mitigation recommendations for residential, commercial, or mixed-use mobile sources are provided by SCAQMD outside of those that reduce greenhouse gas emissions. Chapter 11 of the 1993 CEQA Air Quality Handbook was also consulted. Mitigation identified in Chapter 11 is similar to those identified above as they generally relate to trip reduction strategies.

Reasonable mitigation was also considered to reduce VOC/ROG emissions from operational area sources. Mitigation Measure 4.5.B-3 will be incorporated to reduce ROG emissions from cleaning products by requiring hotel, outlet mall, and condominium staff to utilize low-VOC cleaning supplies and electric powered landscape equipment. Note that while this is a reasonable mitigation measure, CalEEMod does not calculate any actual reduction from this measure and therefore it is not reflected in the mitigated emissions provided herein. Mitigation Measure 4.5.B-4 will be incorporated requiring use of low-VOC paints during reapplication on interior and exterior surfaces and requiring use of electric landscape equipment. This will result in a decrease of VOC emissions from painting reapplication by approximately 20 percent and up to approximately 80 percent of emission from use of electric landscape equipment. No other mitigation options are available to reduce VOC/ROG emissions.

Table 11 (Phase 1 Long-Term Daily Emissions) summarizes criteria pollutant emission after consideration of mobile source and area sources reductions resulting from project design features, regulatory requirements, and mitigation measures. With mitigation incorporated, PM<sub>2.5</sub> emissions will be reduced below the SCAQMD daily threshold. ROG, NO<sub>x</sub>, CO, and PM<sub>10</sub> emissions will continue to exceed the SCAQMD daily thresholds. Impacts remain significant unavoidable.

**Table 11**  
**Phase 1 Long-Term Daily Emissions (lbs/day)**

Source	ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>UNMITIGATED</b>						
<i>Summer</i>						
Area Sources	46	<1	<1	<1	<1	<1
Energy Demand	1	5	4	<1	<1	<1
Mobile Sources	119	346	1,409	4	249	70
<i>Summer Total</i>	<i>165</i>	<i>351</i>	<i>1,413</i>	<i>4</i>	<i>250</i>	<i>70</i>
<i>Winter</i>						
Area Sources	46	<1	<1	<1	<1	<1
Energy Demand	<1	5	4	<1	<1	<1
Mobile Sources	123	364	1,380	4	249	70
<i>Winter Total</i>	<i>169</i>	<i>369</i>	<i>1,384</i>	<i>4</i>	<i>250</i>	<i>70</i>
Threshold	55	55	550	150	150	55
Substantial?	Yes	Yes	Yes	No	Yes	Yes
<b>MITIGATED</b>						
<i>Summer</i>						
Area Sources	37	<1	<1	<1	<1	<1
Energy Demand	1	5	4	<1	<1	<1
Mobile Sources	94	264	1,080	3	189	53
<i>Summer Total</i>	<i>131</i>	<i>269</i>	<i>1,084</i>	<i>3</i>	<i>189</i>	<i>53</i>
<i>Winter</i>						
Area Sources	37	<1	<1	<1	<1	<1
Energy Demand	1	5	4	<1	<1	<1
Mobile Sources	97	278	1,063	3	189	53
<i>Winter Total</i>	<i>134</i>	<i>283</i>	<i>1,067</i>	<i>3</i>	<i>189</i>	<i>53</i>
Threshold	55	55	550	150	150	55
Substantial?	Yes	Yes	Yes	No	Yes	No

Construction of the residential portion of the towers is anticipated to be completed in the fall of 2019. Assuming full occupancy in year 2020, total emissions from the hotel, retail, and residential portions of the project are summarized in Table 12 (Total Long-term Daily Emissions). As discussed herein, these emissions calculations include project design features, regulatory requirements, and mitigation measures applicable to the hotel and retail components of the project. Considering the project's density based on the project's residential foot print of 2.47 acres (based on the footprint of the residential parking structure) and proposed 600 dwelling units, the project residential density is 242.91 dwelling units per acre. All design features, regulatory requirements, and mitigation applicable to the Phase 1 operation of the project will be applicable after the addition of the residential component. ROG, NO<sub>x</sub>, CO, and PM emissions will continue to exceed the SCAQMD daily thresholds at project build out. Impacts remain significant and unavoidable.

### Hotel, Retail, and Residential Operational Emissions

Construction of the residential portion of the towers is anticipated to be completed in the fall of 2019. Assuming full occupancy in year 2020, total emissions from the hotel, retail, and residential portions of the project are summarized in Table 12 (Total Long-Term Daily Emissions). As discussed herein, these emissions calculations include project design features, regulatory

requirements, and mitigation measures applicable to the hotel and retail components of the project. Considering the project's density based on the project's residential foot print of 1.15 acres and proposed 600 dwelling units, the project residential density is 521.7 dwelling units per acre. All design features, regulatory requirements, and mitigation applicable to the Phase 1 operation of the project will be applicable after the addition of the residential component. ROG, NO<sub>x</sub>, CO, and PM emissions will continue to exceed the SCAQMD daily thresholds at project build out.

**Table 12**  
**Total Long-Term Daily Emissions (lbs/day)**

Source	ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>UNMITIGATED</b>						
<i>Summer</i>						
Area Sources	70	1	50	<1	<1	<1
Energy Demand	1	7	5	<1	1	1
Mobile Sources	109	306	1,274	4	278	78
<i>Summer Total</i>	<i>180</i>	<i>314</i>	<i>1,329</i>	<i>4</i>	<i>279</i>	<i>79</i>
<i>Winter</i>						
Area Sources	70	1	50	<1	<1	<1
Energy Demand	1	7	5	<1	1	1
Mobile Sources	112	322	1,252	4	278	78
<i>Winter Total</i>	<i>183</i>	<i>329</i>	<i>1,307</i>	<i>4</i>	<i>279</i>	<i>79</i>
Threshold	55	55	550	150	150	55
Substantial?	Yes	Yes	Yes	No	Yes	Yes
<b>MITIGATED</b>						
<i>Summer</i>						
Area Sources	56	<1	38	<1	<1	<1
Energy Demand	1	7	5	<1	1	1
Mobile Sources	86	227	953	3	203	57
<i>Summer Total</i>	<i>142</i>	<i>235</i>	<i>996</i>	<i>3</i>	<i>204</i>	<i>58</i>
<i>Winter</i>						
Area Sources	70	1	50	<1	<1	<1
Energy Demand	1	7	5	<1	1	1
Mobile Sources	88	239	943	3	203	57
<i>Winter Total</i>	<i>144</i>	<i>246</i>	<i>986</i>	<i>3</i>	<i>204</i>	<i>58</i>
Threshold	55	55	550	150	150	55
Substantial?	Yes	Yes	Yes	No	Yes	Yes

### Construction and Operation Overlap

Construction of Phase 1 is anticipated to begin January 2015 and take approximately 16 months to complete. The retail, restaurant, and hotel use will be operational before construction of Phase 2 commences. As a result, Phase 1 operational emissions and Phase 2 construction emissions will overlap. Table 13 (Phase 1 Operation and Phase 2 Construction Emissions Overlap) summarizes total emissions resulting from the operation of Phase 1 and the construction of Phase 2. Combined emissions are compared against the lower operational thresholds to provide a worst case analysis. As summarized in Table 13, the combined operation of Phase 1 and construction of Phase 2 will exceed the operational thresholds established by SCAQMD for ROG, NO<sub>x</sub>, CO, and coarse particulate matter. Note that these emissions reflect mitigated operational and construction conditions. As discussed herein, all feasible operational mitigation has been considered. Considering Phase 1 operational emissions constitutes the majority of the overlap emissions, no feasible mitigation can be incorporated to reduce overlap emissions below daily SCAQMD thresholds.

**Table 13**  
**Phase 1 Operation and Phase 2 Construction Emissions Overlap (lbs/day)**

Source	ROG	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Phase 1 Operation	134	283	1,084	3	189	53
Phase 2 Construction	4	28	29	<1	4	2
<i>Total</i>	<i>138</i>	<i>311</i>	<i>1,113</i>	<i>3</i>	<i>193</i>	<i>55</i>
<b>Threshold</b>	<b>55</b>	<b>55</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
Substantial?	Yes	Yes	Yes	No	Yes	No

## Localized Emissions

### *TOXIC AIR CONTAMINANTS*

Demolition of existing structures built during the 1980s or earlier could expose demolition workers and surrounding uses to airborne asbestos emissions due to the potential presence of asbestos-containing materials (ACM). This is because that as portions of the building are removed and destroyed, asbestos has the potential to become agitated and become airborne. The project site is currently vacant; therefore, the project will not involve demolition activities and will not expose demolition workers to asbestos-containing materials (ACM). Operationally, the proposed project does not emit toxic air contaminants.

### *CARBON MONOXIDE HOTSPOTS*

A carbon monoxide (CO) hotspot is an area of localized CO pollution that is caused by severe vehicle congestion on major roadways, typically near intersections. CO hotspots have the potential to violate State and Federal CO standards at intersections, even if the broader Basin is in attainment for Federal and State levels. The California Department of Transportation Project-Level Carbon Monoxide Protocol (Protocol) screening procedures have been utilized to determine if the proposed project could potentially result in a CO hotspot.<sup>31</sup> According to Section 3.1.3 of the Protocol, the proposed project is regionally significant; however, because the state is in attainment for carbon monoxide emissions, local impacts only need to be analyzed. Regionally significant projects are defined in 40 CFR Section 93.101 and through extension in 40 CFR Section 93.105(c)(1)(ii), as follows:

*Regionally significant project means a transportation project (other than an exempt project) that is on a facility which serves regional transportation needs (such as access to and from the area outside of the region, major activity centers in the region, major planned developments such as new retail malls, sports complexes, etc., or transportation terminals as well as most terminals themselves) and would normally be included in the modeling of a metropolitan area's transportation network, including at a minimum all principal arterial highways and all fixed guideway transit facilities that offer an alternative to regional highway travel.*

Localized impacts are analyzed in Protocol Section 4. The local analysis procedures in Section 4.7.1 indicate that the proposed project has the potential to worsen air quality (as defined for Protocol purposes only) because it will result in an increase in the number of vehicles operating in *cold start* mode by more than two percent. *Cold Start* mode refers to a vehicle started after an hour or more being turned off. Because the project site is currently vacant, existing trips from the project site have not been considered. The proposed project will result in an average daily trip (ADT) increase of approximately 21,317 daily drips to area roadways. The local analysis procedures then direct to Protocol Sections 4.7.3 and 4.7.4. These sections indicate that if the proposed project involves signalized intersections performing at Level of Service (LOS) E or worse than the proposed project will be subject to a screening analysis. The proposed project will involve one or more signalized intersection operating at LOS E or worse as identified in the project traffic study; therefore, a screening analysis is performed to determine if a detailed analysis will be required. Section 4.4 references Appendix A of the Protocol for screening purposes; however, because of the age of the assumptions used in the screening procedures, they are no longer accepted. The Sacramento Metropolitan Air Quality Management District (SAQMD) developed a screening threshold that states that any project involving an intersection experiencing 31,600 vehicles per hour or more will require detailed analysis.<sup>32</sup> The proposed project will not involve an intersection experiencing this level of traffic; therefore, the proposed project passes the screening analysis and

impacts are deemed acceptable. Based on the local analysis procedures, the proposed project is satisfactory pursuant to the Protocol and will not result in a CO hotspot.

**LOCALIZED SIGNIFICANCE THRESHOLDS**

As part of SCAQMD’s environmental justice program, attention has recently been focusing more on the localized effects of air quality. Although the region may be in attainment for a particular criteria pollutant, localized emissions from construction activities coupled with ambient pollutant levels can cause localized increases in criteria pollutants that exceed national and/or State air quality standards.

Construction-related criteria pollutant emissions and potentially significant localized impacts were evaluated pursuant to the SCAQMD Final Localized Significance Thresholds Methodology. This methodology provides screening tables for one through five acre project scenarios, depending on the amount of site disturbance during a day. Maximum daily oxides of nitrogen (NO<sub>x</sub>), carbon monoxide (CO), and particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>) emissions will occur during site preparation, grading of the project site, construction of the project, and paving. Table 14 (Localized Significance Threshold Analysis) summarizes on-site summer emissions as compared to the local thresholds established for Source Receptor Area (SRA) 11 (South San Gabriel Valley). A 25 meter receptor distance was used to reflect the proximity of nearby uses to the project site. On-site emissions from each construction phase were evaluated individually and as a group where phases will overlap. Emissions of NO<sub>x</sub> and CO will be greatest during concurrent hotel construction, retail construction, and grading for the residential parking structure. Emissions of particulate matter will be greatest during site preparation activities. It should be noted that the results summarized in Table 14 include application of SCAQMD Rule 403 and requires (the utilization of applicable best management practices to minimize fugitive dust emissions. A 50 percent reduction in fugitive dust emissions is assumed based on rule requirements. Based on CalEEMod calculations, assuming that exposed areas will be watered two times daily during construction activities, localized emissions of PM<sub>10</sub> and PM<sub>2.5</sub> during the Phase 1 site preparation phase will exceed the SCAQMD thresholds. On-site emissions from Phase 2 construction activities will not exceed any localized threshold.

**Table 14  
Localized Significance**

	NO <sub>2</sub>	CO	PM <sub>10</sub>	PM <sub>2.5</sub>
Phase 1 Maximum	6	63	9	5
Threshold	83	673	5	4
Potentially Significant?	No	No	Yes	Yes
Phase 2 Maximum	27	20	2	2
Threshold	83	673	5	4
Potentially Significant?	No	No	No	No

*Note: PM<sub>10</sub> and PM<sub>2.5</sub> concentrations are expressed in μ/m<sup>3</sup>. NO<sub>2</sub> and CO emissions are expressed in ppm.*

Localized emissions include incorporation of Mitigation Measures 4.5.B-2 to reduce emissions from use of on-site equipment. Furthermore, incorporation of SCAQMD Rule 403 will reduce fugitive dust emissions by a conservative 50 percent. The only other reasonable mitigation to consider is extending the clearing and grubbing phase of construction by reducing the maximum amount of site disturbance per day. Because of the strict schedule required to construct the proposed hotel within the timeframe commitments of the Project Proponent, this is not feasible; therefore, localized impacts related to particulate matter emissions cannot be reduced below the SCAQMD localized significance thresholds. Impacts remain significant and unavoidable. Please see Impacts 4.2.B for a discussion of the health impacts associated with particulate matter emissions.

**Odors**

According to the CEQA Air Quality Handbook, land uses associated with odor complaints include agricultural operations, wastewater treatment plants, landfills, and certain industrial operations (such as manufacturing uses that produce chemicals, paper, etc.). The proposed project is sited within an existing commercial area. The proposed project would not produce odors that would affect a substantial number of people considering that the proposed project will not result in the manufacturing of

any products or conduct other heavy industrial operations. Furthermore, surrounding commercial uses are not associated with substantial odors.

## Cumulative Impacts

### *CUMULATIVE CONSTRUCTION IMPACTS*

Cumulative short-term, construction-related emissions from the proposed project will not contribute considerably to any potential cumulative air quality impact because short-term project emissions will be less than significant and other concurrent construction projects in the region will be required to implement standard air quality regulations and mitigation pursuant to State CEQA requirements, just as this project has.

### *CUMULATIVE OPERATIONAL IMPACTS*

The SCAQMD CEQA Air Quality Handbook identifies methodologies for analyzing long-term cumulative air quality impacts for criteria pollutants for which the Basin is nonattainment. These methodologies identify three performance standards that can be used to determine if long-term emissions will result in cumulative impacts. Essentially, these methodologies assess growth associated with a land use project and are evaluated for consistency with regional projections. These methodologies are outdated, and are no longer recommended by SCAQMD. SCAQMD allows a project to be analyzed using the *projection method* such that consistency with the AQMP will indicate that a project will not contribute considerably to cumulative air quality impacts. As discussed in AQMD Consistency, the proposed project is not consistent with the AQMP and thus will contribute considerably to criteria pollutant emissions that the region is in non-attainment, particularly, NO<sub>x</sub> and particulate matter. Impacts will be significant and unavoidable. Please see Impacts 4.2.B for a discussion of the health impacts associated with ozone and particulate matter emissions.

## Health Impacts

The analysis of construction and operational activities found that the project will contribute substantially to local air quality concerns related to particulate matter emissions and regional air quality concerns related to NO<sub>x</sub>, CO, and particulate emissions. The health effects related to these primary and secondary pollutant emissions is described in the Environmental Setting section of this report and further elaborated on in the 2012 AQMP.

### OZONE

According to the 2012 AQMP, exposure to ambient air containing concentrations of ozone between 0.10 PPM and 0.15 PPM for one-hour over multiple days caused decreased breathing capacity in children, adolescents, and adults. Exercising adults exposed to ozone at concentration equal to or greater than 0.12 PPM for one to three hours of greater than 0.06 PPM for 6.6 hours experience decrements in lung function, increased respiratory symptoms, increases airway responsiveness, and increased airway inflammation. Prolonged, repeated exposure to ozone concentrations equal to or greater than 0.12 PPM results in changes to lung structure, function, elasticity, and biochemistry and increases susceptibility to bacterial respiratory infections in laboratory animals. Based on SCAQMD historical air quality data for the project area, maximum 1-hour concentrations ranged between 0.096 PPM and 0.112 PPM between 2010 and 2012, respectively, with up to five days exceeding the state 1-hour standard. Regionally, the Basin maximum 1-hour concentration ranged between 0.143 PPM and 0.160 PPM and exceeded the 1-hour state air quality standard up to 98 days during the year 2012. Based on these data, decreased breathing in persons in the region would be expected up to approximately one third of the year. Because the project will contribute substantially to regional ozone emissions and has been found to conflict with the AQMP, the project will contribute to continued regional health impacts related to excessive ozone exposure.

### PARTICULATE MATTER

The 2012 AQMP identifies a variety of health impacts associated with short- and long-term particulate matter exposure. The AQMP references a study reported in the American Journal of Respiratory and Critical Care Medicine that found an increase in mortality of one percent is associated with every ten µg/m<sup>3</sup> increase in PM<sub>10</sub> emissions. Additionally, hospital admissions due to respiratory problems were found to increase by 1.4 percent and asthmatic attacks increase by three percent. For

PM<sub>2.5</sub> exposure, the USEPA has identified a causal link to cardiovascular effects and mortality. In the South San Gabriel Valley monitoring area, maximum 24-hour concentration of fine particulate matter ranged between 34.9 µg/m<sup>3</sup> and 45.3 µg/m<sup>3</sup>, respectively. The federal PM<sub>2.5</sub> air quality standard was exceeded on one day in both 2011 and 2012 in the area. Regionally, the Basin experienced a maximum 24-hour concentration of PM<sub>10</sub> at 89 µg/m<sup>3</sup> in the year 2010 and exceeded the state air quality standard on 35 days in 2011. The Basin experienced a maximum 24-hour concentration of PM<sub>2.5</sub> at 65 µg/m<sup>3</sup> in 2011 and exceeded the federal air quality standard on 17 days in the same year. Because the project will contribute substantially to local and regional particulate matter emissions and has been found to conflict with the AQMP, the project will contribute to continued local and regional health impacts related to excessive particulate matter exposure.

## Thresholds of Significance

The proposed project could result in potentially significant impacts related to greenhouse gas emissions and global climate change if it would:

- A. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment.
- B. Conflict with an applicable plan, policy, or regulation adopted for the purposes of reducing the emissions of greenhouse gases.

A numerical threshold for determining the significance of GHG emissions in the South Coast Air Basin (Basin) has not been established by the South Coast Air Quality Management District (SCAQMD). To determine if the Project will contribute significantly to climate change impacts, a performance standard of a 16 percent reduction under *business-as-usual* (BAU) levels will be utilized, consistent with the Statewide 2020 reduction requirement pursuant to AB32. Accordingly, GHG emissions could result in potentially significant impacts if this performance standard is not met. This report uses this 16 percent below BAU standard to analyze the project’s potential GHG emissions impacts.

### SHORT-TERM EMISSIONS

The proposed project will result in short-term greenhouse gas emissions from construction and installation activities. Greenhouse gas emissions will be released by equipment used for demolition, grading, paving, building construction, and architectural coating activities. GHG emissions will also result from worker and vendor trips to and from the project site. Table 15 (Construction Greenhouse Gas Emissions) summarizes the estimated yearly emissions from construction activities. Carbon dioxide emissions from construction equipment and worker/vendor trips were estimated utilizing the California Emissions Estimator Model (CalEEMod) version 2013.2.2. Construction activities are short-term and cease to emit greenhouse gases upon completion, unlike operational emissions that are continuous year after year until operation of the use ceases. Because of this difference, SCAQMD recommends in its draft threshold to amortize construction emissions over a 30-year operational lifetime. This normalizes construction emissions so that they can be grouped with operational emissions in order to generate a precise project GHG inventory. Amortized construction emissions are included in Table 15.

Table 15  
Construction Greenhouse Gas Emissions

Construction Year	MTCO2E/YR
2015	1,508
2016	782
2017	128
2018	342
2019	131
<i>Total</i>	<i>2,891</i>
<b>Amortized Total</b>	<b>96</b>
Source: MIG   Hogle-Ireland 2014	

### LONG-TERM EMISSIONS

Proposed project activities will result in continuous greenhouse gas emissions from mobile, area, and operational sources. Mobile sources including vehicle trips to and from the project site will result primarily in emissions of CO<sub>2</sub> with minor emissions of methane and nitrous oxide. The most significant GHG emission from natural gas usage will be methane. Electricity usage by the proposed project and indirect usage of electricity for water and wastewater conveyance will result primarily in emissions of carbon dioxide. Disposal of solid waste will result in emissions of methane from the decomposition of waste at landfills

coupled with CO<sub>2</sub> emission from the handling and transport of solid waste. These sources combine to define the long-term greenhouse gas emissions inventory for the build-out of the proposed project.

The methodology utilized for each emissions source in CalEEMod is based on the CAPCOA *Quantifying Greenhouse Gas Mitigation Measures* handbook.<sup>33</sup> A summary of the proposed project operational greenhouse gas emissions is included in Table 16 (Long-Term Greenhouse Gas Emissions). The emissions inventories are presented as metric tons of carbon dioxide equivalent (MTCO<sub>2</sub>E) meaning that all emissions have been weighted based on their Global Warming Potential (GWP) (a metric ton is equal to 1.102 US short tons).

Mobile sources are based on annual vehicle miles traveled (VMT) based on daily trip generation identified in the project traffic study.<sup>34</sup> Default CalEEMod trip lengths and fleet mix are utilized. Natural gas, electricity and solid waste generation were projected using CalEEMod default values. Water demand was calculated by the project engineer and used in place of CalEEMod defaults.

**Table 16**  
**Long-Term Greenhouse Gas Emissions**

Source	MTCO <sub>2</sub> E/YR
Area	10
Energy	7,201
Mobile	40,621
Solid Waste	495
Water/Wastewater	293
<i>Total</i>	<i>48,621</i>
Source: MIG   Hogle-Ireland 2014	

**GREENHOUSE GAS EMISSIONS INVENTORY**

Tables 14 (Greenhouse Gas Emissions Inventory) summarizes the yearly estimated greenhouse gas emissions from construction of the proposed project and operational sources under operational conditions. The project will generate 48,717 MTCO<sub>2</sub>E annually under BAU conditions.

**Table 17**  
**Greenhouse Gas Emissions Inventory**

Source	MTCO <sub>2</sub> E/YR
Amortized Construction	96
Operational	48,621
<i>Total</i>	<i>48,717</i>
Source: MIG   Hogle-Ireland 2014	

**DESIGN FEATURE AND REGULATORY REQUIREMENTS**

As a mixed-use project in an urbanized area, the project includes design features that will reduce greenhouse gas emissions. Furthermore, regulatory requirements associated with the state CALGREEN requirements will further reduce greenhouse gas emissions. Greenhouse gas emissions reductions are summarized below as modeled using CalEEMod per the California Air Pollution Control Officers Association (CAPCOA) *Quantifying Greenhouse Gas Mitigation Measures* handbook. Design features and regulatory requirements will reduce greenhouse gas emissions by 9,657 MTCO<sub>2</sub>E per year, a 20 percent reduction. With design features, regulatory requirements, and mitigation incorporated, the project will exceed the threshold of a 16 percent reduction from BAU conditions. Table 18 (Greenhouse Gas Emissions Inventory with Mitigation) summarizes the project greenhouse gas inventory with design features and regulatory requirements incorporated.

**Table 18**  
**Greenhouse Gas Emissions Reduced Inventory**

Source	MTCO2E/YR
Construction	96
Area	7
Energy	7,201
Mobile	31,272
Solid Waste	248
Water/Wastewater	236
<i>Total</i>	<i>39,060</i>
Source: MIG   Hogle-Ireland 2014	

The mixed-use development will result in an increase in jobs and housing on the site. Increased density reduces the distance people travel and provides greater options for their mode of travel (LUT-1). With an increase of 1,799 jobs on 11.98 job acres, the project will increase employment density by 150 jobs per acre. With an increase of 600 dwelling units, the project will increase residential density by 144 dwelling units per housing acre.

The proposed project supports higher-density, vertical, mixed-use development in an area currently characterized by commercial and industrial uses (CAPCOA Mitigation Measure LUT-3). Having different types of land uses near one another can decrease vehicle miles traveled (VMT) since trips between land use types are shorter and may be accommodated by non-auto modes of transport.<sup>35</sup> The increase in diversity is supported by the proposed project which includes a mix of uses including retail, restaurant, and hotel uses in addition to 600 residential units.

The project site is located approximately 11.7 miles from Downtown Los Angeles. Proximity to downtowns or major job centers increases the potential for pedestrians to walk and bike to these destinations, reduces the vehicle miles traveled when compared to suburban areas, and makes use of public transit more appealing (CAPCOA Mitigation Measure LUT-4).<sup>36</sup>

Pursuant to California Green Building Standards Code (CALGREEN) requirements, indoor water demand must be reduced by a minimum of 20 percent. This requirement was applied to the project using default reduction factors provided in CalEEMod (CAPCOA Mitigation Measure WUW-1). Proposed landscaping has been designed to be water efficient in accordance with State and county water efficient landscape requirements. Based on the proposed landscape design, maximum allowable water use was calculated at 3,236,112 gallons per year. MAWA is calculated using the following equation:

$$\text{MAWA} = \text{ET}_o * 0.62 * [(0.70 * \text{LA}) + (0.30 * \text{SLA})]$$

Where:

- MAWA = Maximum Applied Water Allowance (gallons per year)
- ET<sub>o</sub> = Reference Evapotranspiration for Locale (inches per year)
- LA = Landscape Area (square feet)
- SLA = Special Landscape Area (square feet)

The estimated total water use was calculated at 3,119,085 gallons per year, an approximate four percent reduction in outdoor water demand (CAPCOA Mitigation Measure WUW-3). Estimated landscaping water demand was calculated using the State equation for calculating Estimated Total Water Use (ETWU) assuming medium water use plants, as follows:

$$ETWU = ET_o * 0.62 * \{[(PF * HA) \div IE] + SLA\}$$

Where:

ETWU = Estimated Total Water Use per year (gallons)  
ET<sub>o</sub> = Reference Evapotranspiration (inches)  
PF = Plant Factor  
HA = Hydrozone Area [high, medium, and low water use areas] (square feet)  
SLA = Special Landscape Area (square feet)  
IE = Irrigation Efficiency (minimum 0.71)

Proposed landscaping will include a number of water efficient irrigation features. These may include automatic irrigation controllers, separate turf and shrub irrigation, and separate hydrozones. The CalEEMod default reduction of 6.1 percent was applied to account for improved irrigation efficiency (CAPCOA Mitigation Measure WUW-4).

Pursuant to the State *Integrated Waste Management Act* (AB 939) and the mandatory commercial recycling (California Code of Regulations Title 14, Division 7, Chapter 9.1) requirement of AB 32 (effective May 2012), the proposed project is assumed to recycle a minimum of 50 percent of its solid waste (CAPCOA Mitigation Measure SW-1). Recycling helps reduce GHG emissions by reducing solid waste transportation demand and decomposition of solid waste in landfills.

## Greenhouse Gas Emissions Reduction Planning

### *CALIFORNIA AIR RESOURCES BOARD SCOPING PLAN*

ARB's *Scoping Plan* identifies strategies to reduce California's greenhouse gas emissions in support of AB32. Many of the strategies identified in the Scoping Plan are not applicable at the project level, such as long-term technological improvements to reduce emissions from vehicles. Some measures are applicable and supported by the proposed project, such as energy efficiency. Finally, while some measures are not directly applicable, the proposed project would not conflict with their implementation. Reduction measures are grouped into 18 action categories, as follows:

1. **California Cap-and-Trade Program Linked to Western Climate Initiative Partner Jurisdictions.** Implement a broad-based California cap-and-trade program to provide a firm limit on emissions. Link the California cap-and-trade program with other Western Climate Initiative Partner programs to create a regional market system to achieve greater environmental and economic benefits for California.<sup>37</sup> Ensure California's program meets all applicable AB 32 requirements for market-based mechanisms.
2. **California Light-Duty Vehicle Greenhouse Gas Standards.** Implement adopted Pavley standards and planned second phase of the program. Align zero-emission vehicle, alternative and renewable fuel and vehicle technology programs with long-term climate change goals.
3. **Energy Efficiency.** Maximize energy efficiency building and appliance standards, and pursue additional efficiency efforts including new technologies, and new policy and implementation mechanisms. Pursue comparable investment in energy efficiency from all retail providers of electricity in California (including both investor-owned and publicly owned utilities).
4. **Renewables Portfolio Standards.** Achieve 33 percent renewable energy mix statewide.
5. **Low Carbon Fuel Standard.** Develop and adopt the Low Carbon Fuel Standard.
6. **Regional Transportation-Related Greenhouse Gas Targets.** Develop regional greenhouse gas emissions reduction targets for passenger vehicles.
7. **Vehicle Efficiency Measures.** Implement light-duty vehicle efficiency measures.
8. **Goods Movement.** Implement adopted regulations for the use of shore power for ships at berth. Improve efficiency in goods movement activities.
9. **Million Solar Roofs Program.** Install 3,000 megawatts of solar-electric capacity under California's existing solar programs.

10. **Medium- and Heavy-Duty Vehicles.** Adopt medium- (MD) and heavy-duty (HD) vehicle efficiencies. Aerodynamic efficiency measures for HD trucks pulling trailers 53-feet or longer that include improvements in trailer aerodynamics and use of rolling resistance tires were adopted in 2008 and went into effect in 2010.<sup>38</sup> Future, yet to be determined improvements, includes hybridization of MD and HD trucks.
11. **Industrial Emissions.** Require assessment of large industrial sources to determine whether individual sources within a facility can cost-effectively reduce greenhouse gas emissions and provide other pollution reduction co-benefits. Reduce greenhouse gas emissions from fugitive emissions from oil and gas extraction and gas transmission. Adopt and implement regulations to control fugitive methane emissions and reduce flaring at refineries.
12. **High Speed Rail.** Support implementation of a high speed rail system.
13. **Green Building Strategy.** Expand the use of green building practices to reduce the carbon footprint of California's new and existing inventory of buildings.
14. **High Global Warming Potential Gases.** Adopt measures to reduce high warming global potential gases.
15. **Recycling and Waste.** Reduce methane emissions at landfills. Increase waste diversion, composting and other beneficial uses of organic materials, and mandate commercial recycling. Move toward zero-waste.
16. **Sustainable Forests.** Preserve forest sequestration and encourage the use of forest biomass for sustainable energy generation. The 2020 target for carbon sequestration is 5 million MTCO<sub>2</sub>E/YR.
17. **Water.** Continue efficiency programs and use cleaner energy sources to move and treat water.
18. **Agriculture.** In the near-term, encourage investment in manure digesters and at the five-year Scoping Plan update determine if the program should be made mandatory by 2020.

Table 16 summarizes the proposed project's consistency with the State Scoping Plan. As summarized, the proposed project will not conflict with any of the provisions of the Scoping Plan and in fact supports four of the action categories through energy efficiency, water conservation, and recycling.

Table 19  
Scoping Plan Consistency Summary

Action	Supporting Measures	Consistency
Cap-and-Trade Program	--	<b>Not Applicable.</b> These programs involve capping emissions from electricity generation, industrial facilities, and broad scoped fuels. Caps do not directly affect retail, residential, restaurant, or hotel uses.
Light-Duty Vehicle Standards	T-1	<b>Not Applicable.</b> This is a statewide measure establishing vehicle emissions standards.
Energy Efficiency	E-1	<b>Consistent.</b> The project will include a variety of building, water, and solid waste efficiencies consistent with CALGREEN requirements.
	E-2	
	CR-1	
	CR-2	
Renewables Portfolio Standard	E-3	<b>Not Applicable.</b> Establishes the minimum statewide renewable energy mix.
Low Carbon Fuel Standard	T-2	<b>Not Applicable.</b> Establishes reduced carbon intensity of transportation fuels.
Regional Transportation-Related Greenhouse Gas Targets	T-3	<b>Not Applicable.</b> The project will not result in substantial emissions of greenhouse gas emissions; therefore, transportation related emissions reductions are not required.
Vehicle Efficiency Measures	T-4	<b>Not Applicable.</b> Identifies measures such as minimum tire-fuel efficiency, lower friction oil, and reduction in air conditioning use.
Goods Movement	T-5	<b>Not applicable.</b> Identifies measures to improve goods movement efficiencies such as advanced combustion strategies, friction reduction, waste heat recovery, and electrification of accessories.
	T-6	
Million Solar Roofs Program	E-4	<b>Optional.</b> Sets goal for use of solar systems throughout the state. The project proponent could include solar systems to help meet this goal.
Medium- & Heavy-Duty Vehicles	T-7	<b>Not applicable.</b> Medium-duty and heavy-duty trucks and trailers will not operate from the proposed project.
	T-8	
Industrial Emissions	I-1	<b>Not Applicable.</b> These measures are applicable to large industrial facilities (> 500,000 MTCOE2/YR) and other intensive uses such as refineries.
	I-2	
	I-3	
	I-4	
	I-5	
High Speed Rail	T-9	<b>Not Applicable.</b> Supports increased mobility choice.
Green Building Strategy	GB-1	<b>Consistent.</b> The project will include a variety of building, water, and solid waste efficiencies consistent with CALGREEN requirements.
High Global Warming Potential Gases	H-1	<b>Not Applicable.</b> The proposed project is not a

Action	Supporting Measures	Consistency
	H-2	substantial source of high GWP emissions and will comply with any future changes in air conditioning, fire protection suppressant, and other requirements.
	H-3	
	H-4	
	H-5	
	H-6	
	H-7	
Recycling and Waste	RW-1	<b>Consistent.</b> The project will be required to recycle a minimum of 50 percent from construction activities and operations per State requirements.
	RW-2	
	RW-3	
Sustainable Forests	F-1	<b>Not Applicable.</b> The project site is not forested and the project will not result in the loss of any forest land.
Water	W-1	<b>Consistent.</b> The project will include use of low-flow fixtures and efficient landscaping per State requirements (see discussion of water demand reductions in Impact 4.5.A).
	W-2	
	W-3	
	W-4	
	W-5	
	W-6	
Agriculture	A-1	<b>Not Applicable.</b> The project is not an agricultural use.

## Energy Conservation

### INTRODUCTION

This energy conservation analysis has been prepared pursuant to California Public Resources Code Section 21100(b)(3) and Appendix F of the California Environmental Quality Act (CEQA) Guidelines.

The purpose of this analysis is to assess the short- and long-term energy demand of the proposed project, identify proposed and required conservation measures, and assess the extent to which the proposed project would conserve energy. Project energy demand will not be wasteful, inefficient, or unnecessary if it does not increase energy demand over typical construction and operating requirements.

Energy demand and conservation effectiveness are primarily based on demand surveys utilized in the California Emissions Estimator Model (CalEEMod). CalEEMod estimates energy demand for purposes of modeling greenhouse gas emissions.

Appendix F of the State CEQA Guidelines states that the goal of assessing energy conservation in a project is to ensure the wise and efficient use of energy. Energy efficiency is achieved by decreasing energy consumption, decreasing reliance on fossil fuels, and increasing use of renewable energy sources. The guidelines for analysis of energy conservation provided in Appendix F of the State CEQA Guidelines are provided herein.

### CEQA APPENDIX F: ENERGY CONSERVATION

#### I. Introduction

*The goal of conserving energy implies the wise and efficient use of energy. The means of achieving this goal include:*

- (1) decreasing overall per capita energy consumption,*
- (2) decreasing reliance on fossil fuels such as coal, natural gas and oil, and*
- (3) increasing reliance on renewable energy sources.*

*In order to assure that energy implications are considered in project decisions, the California Environmental Quality Act requires that EIRs include a discussion of the potential energy impacts of proposed projects, with particular emphasis on avoiding or reducing inefficient, wasteful and unnecessary consumption of energy (see Public Resources Code section 21100(b)(3)). Energy conservation implies that a project's cost effectiveness be reviewed not only in dollars, but also in terms of energy requirements. For many projects, cost effectiveness may be determined more by energy efficiency than by initial dollar costs. A lead agency may consider the extent to which an energy source serving the project has already undergone environmental review that adequately analyzed and mitigated the effects of energy production.*

## *II. EIR Contents*

*Potentially significant energy implications of a project shall be considered in an EIR to the extent relevant and applicable to the project. The following list of energy impact possibilities and potential conservation measures is designed to assist in the preparation of an EIR. In many instances specific items may not apply or additional items may be needed. Where items listed below are applicable or relevant to the project, they should be considered in the EIR.*

### *A. Project Description may include the following items:*

- 1. Energy consuming equipment and processes which will be used during construction, operation and/or removal of the project. If appropriate, this discussion should consider the energy intensiveness of materials and equipment required for the project.*
- 2. Total energy requirements of the project by fuel type and end use.*
- 3. Energy conservation equipment and design features.*
- 4. Identification of energy supplies that would serve the project.*
- 5. Total estimated daily vehicle trips to be generated by the project and the additional energy consumed per trip by mode.*

### *B. Environmental Setting may include existing energy supplies and energy use patterns in the region and locality.*

### *C. Environmental Impacts may include:*

- 1. The project's energy requirements and its energy use efficiencies by amount and fuel type for each stage of the project including construction, operation, maintenance and/or removal. If appropriate, the energy intensiveness of materials may be discussed.*
- 2. The effects of the project on local and regional energy supplies and on requirements for additional capacity.*
- 3. The effects of the project on peak and base period demands for electricity and other forms of energy.*
- 4. The degree to which the project complies with existing energy standards.*
- 5. The effects of the project on energy resources.*
- 6. The project's projected transportation energy use requirements and its overall use of efficient transportation alternatives.*

### *D. Mitigation Measures may include:*

- 1. Potential measures to reduce wasteful, inefficient and unnecessary consumption of energy during construction, operation, maintenance and/or removal. The discussion should explain why certain measures were incorporated in the project and why other measures were dismissed.*
- 2. The potential of siting, orientation, and design to minimize energy consumption, including transportation energy, increase water conservation and reduce solid waste.*
- 3. The potential for reducing peak energy demand.*
- 4. Alternate fuels (particularly renewable ones) or energy systems.*
- 5. Energy conservation which could result from recycling efforts.*

- E. Alternatives should be compared in terms of overall energy consumption and in terms of reducing wasteful, inefficient and unnecessary consumption of energy.
- F. Unavoidable Adverse Effects may include wasteful, inefficient and unnecessary consumption of energy during the project construction, operation, maintenance and/or removal that cannot be feasibly mitigated.
- G. Irreversible Commitment of Resources may include a discussion of how the project preempts future energy development or future energy conservation.
- H. Short-Term Gains versus Long-Term Impacts can be compared by calculating the project's energy costs over the project's lifetime.
- I. Growth Inducing Effects may include the estimated energy consumption of growth induced by the project.

## A. PROJECT DESCRIPTION

### Energy Demand

Short-term energy demand would result from construction of the proposed project. This would include energy demand from worker and vendor vehicle trips and construction equipment usage. Long-term energy demand would result from operation of the proposed project. This would include energy demand from vehicle trips, electricity and natural gas usage, and water and wastewater conveyance. This section quantifies the energy needs of these activities.

#### Construction Activities

Worker and vendor trips have been estimated based on the construction schedule assumptions used in the preparation of the project air quality and climate change report. The construction schedule for the proposed project was determined by the project proponent and phase lengths were estimated using CalEEMod defaults with an anticipated start date of January 2015 for Phase 1 and October 2017 for Phase 2. Vendor trips are based on construction vendor trip data compiled by the Sacramento Metropolitan Air Quality Management District. Fuel consumption from worker and vendor trips are estimated by evaluating the number of vehicle trips and travel distances required to complete each construction phase. Construction is scheduled to occur in the years 2015-2016 for Phase 1 and 2017-2018 for Phase 2 based on the construction phasing schedule. Fuel economy for the worker vehicle fleet mix (70 percent automobile and 30 percent light duty truck) is estimated at 35.4 miles per gallon (mpg) in 2015, 36.6 mpg in 2016, 38.7 mpg in 2017, and 41.3 mpg in 2018, based on estimates prepared by the California Air Resources Board (ARB).<sup>39</sup> Fuel efficiency for the vendor medium duty vehicle fleet mix and hauling heavy duty fleet mix is estimated using data provided by the National Highway Traffic Safety Administration (NHTSA) in the Environmental Impact Statement (EIS) for the adopted national medium- and heavy-duty vehicle fuel consumption standard.<sup>40</sup> Worker vehicles are assumed to be gasoline and vendor/hauling vehicles are assumed to be diesel. Fuel demand for worker and vendor trips for each construction phase activity is calculated as follows:

$$\text{Fuel} = \frac{\text{Trips} * \text{Length} * \text{Days}}{\text{Economy}}$$

Where:

Fuel	= Total Fuel Demand (gallons)
Trips	= Daily Worker/Vendor Trips
Length	= Trip Length (miles)
Economy	= Fuel Economy of Vehicle Fleet (miles/gallon)
Days	= Total Days of Activity

Fuel demand for hauling trips for each demolition activity is calculated as follows:

$$\text{Fuel} = \frac{\text{Trips} * \text{Length} * \text{Days}}{\text{Economy}}$$

Where:

- Fuel = Total Fuel Demand (gallons)
- Trips = Daily Hauler Trips
- Length = Trip Length (miles)
- Economy = Fuel Economy of Vehicle Fleet (miles/gallon)
- Days = Total Days of Activity

Calculations for total worker, vendor, and hauler fuel consumption are provided in Table 20 (Construction Worker Gasoline Demand), Table 21 (Construction Vendor Diesel Demand), and Table 22 (Construction Hauler Fuel Consumption). Total gasoline consumption from worker trips is estimated to be 64,743.08 gallons and estimated total diesel consumption is estimated at 30,668.77 gallons.

**Table 20  
Construction Worker Gasoline Demand**

Phase	Trips	Trip Length	Total Miles	Fuel Economy	gal/day	Total Days	Total Demand
<b>PHASE 1</b>							
Clearing and Grubbing	18	14.7	264.6	35.4	7.47	10	74.75
Hotel Grading	13	14.7	191.1	35.4	5.40	35	188.94
Retail Grading	15	14.7	220.5	35.4	6.23	73	454.70
Hotel Construction	100	14.7	1470	35.4	41.53	230	9,550.85
Residential Grading	15	14.7	220.5	35.4	6.23	27	168.18
Retail Construction	85	14.7	1249.5	35.4	35.30	300	10,588.98
Residential Parking	150	14.7	2205	35.4	62.29	300	18,686.44
Hotel Coatings	20	14.7	294	36.6	8.03	18	144.59
On-Site Paving	13	14.7	191.1	36.6	5.22	18	93.98
Flair Drive Paving	18	14.7	264.6	36.6	7.23	5	36.15
Rio Hondo Paving	18	14.7	264.6	36.6	7.23	5	36.15
Retail Coatings	17	14.7	249.9	36.6	6.83	20	136.56
<i>Phase 1 Worker Gasoline Use (gal)</i>							<i>40,160.27</i>
<b>PHASE 2</b>							
Residential Parking	150	14.7	2205	38.7	56.98	50	2,848.84
Towers Construction	150	14.7	2205	38.7	56.98	370	21,081.40
Residential Coatings	95	14.7	1396.5	42.8	32.63	20	652.57
<i>Phase 2 Worker Gasoline Use (gal)</i>							<i>24,582.80</i>
<b>Total Worker Gasoline Use (gal)</b>							<b>64,743.08</b>

**Table 21  
Construction Vendor Diesel Demand**

Phase	Trips	Trip Length	Total Miles	Fuel Efficiency	gal/day	Total Days	Total Demand
<b>PHASE 1</b>							
Hotel Construction	8	6.9	55.2	10.75	5.13	300	1,540.47
Retail Construction	8	6.9	55.2	10.75	5.13	300	1,540.47
Parking Construction	8	6.9	55.2	10.75	5.13	300	1,540.47
<i>Phase 1 Vendor Diesel Use (gal)</i>							<i>4,621.40</i>
<b>PHASE 2</b>							
Residential Parking	8	6.9	55.2	10.75	5.13	50	256.74
Towers Construction	8	6.9	55.2	10.75	5.13	370	1,899.91
<i>Phase 2 Vendor Diesel Use (gal)</i>							<i>2,156.65</i>
<b>Total Vendor Diesel Use (gal)</b>							<b>6,778.05</b>

**Table 22  
Construction Hauler Diesel Demand**

Phase	Trips	Trip Length	Total Miles	Fuel Efficiency	Total Demand
<b>PHASE 1</b>					
Hotel Grading	4361	10	43610	5.6	7,801.43
Retail Grading	5644	10	56440	5.6	10,078.57
Residential Grading	3366	10	33660	5.6	6,010.71
<b>PHASE 2</b>					
No Hauling Trips	--	--	--	--	0.00
<b>Total Hauler Diesel Use (gal)</b>					<b>23,890.72</b>

Diesel fuel consumption by construction equipment has been estimated based on the construction schedule and equipment usage assumptions used in the preparation of the project air quality and climate change analysis. The construction schedule and equipment assumptions are based on SCAQMD construction survey data that accounts for equipment needs at over 50 construction sites. Fuel usage is determined by evaluating the anticipated usage of each piece of equipment at an estimated fuel use rate of 0.04 gallons per horsepower hour.<sup>41</sup> Equipment fuel demand for each construction phase activity is calculated as follows:

$$\text{Fuel} = \text{HP} * \text{Load} * \text{Rate} * \text{Pieces} * \text{Hrs} * \text{Days}$$

Where:

Fuel = Total Fuel Demand (gallons)  
 HP = Horsepower of Equipment  
 Load = Load Factor of Equipment  
 Pieces = Number of Equipment Required for Activity  
 Hrs = Hours per Day Equipment is in Operation  
 Days = Total Days of Activity

Calculations for total construction equipment diesel consumption are provided in Table 23 (Construction Equipment Diesel Demand). Total diesel consumption after all construction phases is estimated to be 119,519.02 gallons.

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**Table 23**  
**Construction Equipment Diesel Demand**

Phase and Activity	Equipment Type	Horse Power	Load Factor	Fuel Rate	Fuel Use/Hr	No. Equipment	Hrs/Day	Total Days	Total Fuel Use
<b>PHASE 1</b>									
Clearing and Grubbing	Rubber Tired Dozers	255	0.4	0.04	4.08	3	8	10	979.20
Clearing and Grubbing	Tractors/Loaders/Backhoes	97	0.37	0.04	1.44	4	8	10	459.39
Hotel Grading	Excavators	162	0.38	0.04	2.46	1	8	35	689.47
Hotel Grading	Graders	174	0.41	0.04	2.85	1	8	35	799.01
Hotel Grading	Rubber Tired Dozers	255	0.4	0.04	4.08	1	8	35	1,142.40
Hotel Grading	Tractors/Loaders/Backhoes	97	0.37	0.04	1.44	2	8	35	803.94
Retail Grading	Excavators	162	0.38	0.04	2.46	1	8	73	1,438.04
Retail Grading	Graders	174	0.41	0.04	2.85	1	8	73	1,666.50
Retail Grading	Rubber Tired Dozers	255	0.4	0.04	4.08	1	8	73	2,382.72
Retail Grading	Tractors/Loaders/Backhoes	97	0.37	0.04	1.44	3	8	73	2,515.17
Hotel Construction	Cement and Mortar Mixers	9	0.56	0.04	0.20	1	8	230	370.94
Hotel Construction	Cranes	226	0.29	0.04	2.62	1	7	230	4,220.78
Hotel Construction	Forklifts	89	0.2	0.04	0.71	2	8	230	2,620.16
Hotel Construction	Pumps	84	0.74	0.04	2.49	1	6	230	3,431.23
Hotel Construction	Tractors/Loaders/Backhoes	97	0.37	0.04	1.44	2	7	230	4,622.63
Residential Grading	Excavators	162	0.38	0.04	2.46	2	8	27	1,063.76
Residential Grading	Graders	174	0.41	0.04	2.85	1	8	27	616.38
Residential Grading	Rubber Tired Dozers	255	0.4	0.04	4.08	1	8	27	881.28
Residential Grading	Tractors/Loaders/Backhoes	97	0.37	0.04	1.44	2	8	27	620.18
Retail Construction	Cement and Mortar Mixers	9	0.56	0.04	0.20	1	8	300	483.84
Retail Construction	Cranes	226	0.29	0.04	2.62	1	7	300	5,505.36
Retail Construction	Forklifts	89	0.2	0.04	0.71	3	8	300	5,126.40
Retail Construction	Generator Sets	84	0.74	0.04	2.49	1	8	300	5,967.36
Retail Construction	Pumps	84	0.74	0.04	2.49	1	6	300	4,475.52
Retail Construction	Tractors/Loaders/Backhoes	97	0.37	0.04	1.44	3	7	300	9,044.28
Retail Construction	Welders	46	0.45	0.04	0.83	1	8	300	1,987.20
Residential Parking	Cement and Mortar Mixers	9	0.56	0.04	0.20	1	8	300	483.84
Residential Parking	Cranes	226	0.29	0.04	2.62	1	7	300	5,505.36
Residential Parking	Forklifts	89	0.2	0.04	0.71	3	8	300	5,126.40
Residential Parking	Generator Sets	84	0.74	0.04	2.49	1	8	300	5,967.36

Phase and Activity	Equipment Type	Horse Power	Load Factor	Fuel Rate	Fuel Use/Hr	No. Equipment	Hrs/Day	Total Days	Total Fuel Use
Residential Parking	Pumps	84	0.74	0.04	2.49	1	6	300	4,475.52
Residential Parking	Tractors/Loaders/Backhoes	97	0.37	0.04	1.44	3	7	300	9,044.28
Residential Parking	Welders	46	0.45	0.04	0.83	1	8	300	1,987.20
Hotel Coatings	Air Compressors	78	0.48	0.04	1.50	1	6	18	161.74
On-Site Paving	Pavers	125	0.42	0.04	2.10	2	8	18	604.80
On-Site Paving	Paving Equipment	130	0.36	0.04	1.87	2	8	18	539.14
On-Site Paving	Rollers	80	0.38	0.04	1.22	2	8	18	350.21
Flair Drive Paving	Cement and Mortar Mixers	9	0.56	0.04	0.20	4	8	5	32.26
Flair Drive Paving	Pavers	125	0.42	0.04	2.10	1	8	5	84.00
Flair Drive Paving	Rollers	80	0.38	0.04	1.22	1	8	5	48.64
Flair Drive Paving	Tractors/Loaders/Backhoes	97	0.37	0.04	1.44	1	8	5	57.42
Rio Hondo Paving	Cement and Mortar Mixers	9	0.56	0.04	0.20	1	8	5	8.06
Rio Hondo Paving	Pavers	125	0.42	0.04	2.10	1	8	5	84.00
Rio Hondo Paving	Rollers	80	0.38	0.04	1.22	1	8	5	48.64
Rio Hondo Paving	Tractors/Loaders/Backhoes	97	0.37	0.04	1.44	1	8	5	57.42
Retail Coatings	Air Compressors	78	0.48	0.04	1.50	1	6	20	179.71
<i>Phase 1 Construction Equipment Diesel Demand (gal)</i>									<i>98,759.15</i>
<b>PHASE 2</b>									
Residential Parking	Cement and Mortar Mixers	9	0.56	0.04	0.20	1	8	50	80.64
Residential Parking	Cranes	226	0.29	0.04	2.62	1	4	50	524.32
Residential Parking	Forklifts	89	0.2	0.04	0.71	3	6	50	640.80
Residential Parking	Generator Sets	84	0.74	0.04	2.49	1	8	50	994.56
Residential Parking	Pumps	84	0.74	0.04	2.49	1	6	50	745.92
Residential Parking	Tractors/Loaders/Backhoes	97	0.37	0.04	1.44	3	8	50	1,722.72
Residential Parking	Welders	46	0.45	0.04	0.83	1	8	50	331.20
Towers Construction	Cranes	226	0.29	0.04	2.62	1	4	370	3,879.97
Towers Construction	Forklifts	89	0.2	0.04	0.71	2	6	370	3,161.28
Towers Construction	Tractors/Loaders/Backhoes	97	0.37	0.04	1.44	2	8	370	8,498.75
Residential Coatings	Air Compressors	78	0.48	0.04	1.50	1	6	20	179.71
<i>Phase 2 Construction Equipment Diesel Demand (gal)</i>									<i>20,759.87</i>
<b>Total Construction Equipment Diesel Demand (gal)</b>									<b>119,519.02</b>

Operational Activities

*Mobile Sources*

Employees, vendors, and customers of the proposed project will result in the generation of vehicle trips to and from the project site. This will result in the use of gasoline and diesel fuels over the life of the proposed project. Vehicle trips from the proposed project were estimated in the project traffic study. Similar to construction worker and vendor trips, fuel consumption by operation-related vehicles will depend on the number of trips and the length of the trip. Operational trip type, trip length, and fleet mix were generated in CalEEMod from data provided by ARB and SCAQMD. For retail uses, 64.7 percent of trips are assumed to be customer to commercial (C-C) trips, 16.3 percent of trips are assumed to be employee trips (C-W), and 19 percent of trips are assumed to be commercial to nonwork (C-NW) trips such as deliveries. For restaurant uses, 69 percent of trips are assumed to be customer to commercial (C-C) trips, 12 percent of trips are assumed to be employee trips (C-W), and 19 percent of trips are assumed to be commercial to nonwork (C-NW) trips such as deliveries. For the hotel, 61.6 percent of trips are assumed to be customer to hotel (C-C) trips, 19.4 percent of trips are assumed to be employee trips (C-W), and 19 percent of trips are assumed to be commercial to nonwork (C-NW) trips such as deliveries. For residential, 40.2 percent of trips are assumed to be home to work (H-W) trips, 19.2 percent of trips are assumed to be home to school (H-S) trips, and 40.6 percent of trips are assumed to be home to nonwork (H-O) trips. Annual operational fuel demand was calculated as follows:

$$\text{Fuel}_{\text{TT}} = \frac{\text{TVM}}{\text{Economy}}$$

Where:

- Fuel = Total Annual Fuel Demand (gallons)
- TVM = Total Annual Vehicle Miles
- Economy = Fuel Economy of Vehicle Fleet (miles/gallon)

Calculations for annual mobile source fuel consumption are provided in Table 24 (Mobile Source Gasoline Demand) and Table 25 (Mobile Source Diesel Demand). Mobile sources from the proposed project will require approximately 2,216,224 gallons of gasoline per year and 3,098,938 gallons of diesel per year beginning in 2017 for Phase 1 and 2019 for Phase 2.

**Table 24  
Mobile Source Gasoline Demand**

Trip Type	Annual Vehicle Miles	Fuel Economy	Total Demand
<b>PHASE 1</b>			
Retail Visitor to-Commercial	43,755,373	38.7	1,130,630
Retail Employee Home-to-Work	11,023,378	38.7	284,842
Hotel Visitor to-Hotel	5,098,697	38.7	131,749
Hotel Employee Home-to-Work	1,605,759	38.7	41,492
Restaurant Visitor to-Commercial	10,422,949	38.7	269,327
Restaurant Employee Home-to-Work	1,812,687	38.7	46,839
<i>Phase 1 Operational Gasoline Demand (gal)</i>			<i>1,904,880</i>
<b>PHASE 2</b>			
Resident Home-to-Work	5,356,859	42.8	125,160
Resident Home-to-School	2,558,500	42.8	59,778
Resident Home-to-Nonwork	5,410,161	42.8	126,406
<i>Phase 2 Operational Gasoline Demand (gal)</i>			<i>311,344</i>
<b>Total Operational Gasoline Demand (gal)</b>			<b>2,216,224</b>

Table 25  
Mobile Source Diesel Demand

Trip Type			
<b>PHASE 1</b>			
Retail Vendor	12,849,337	5.58	2,302,749
Hotel Vendor	1,572,650	5.58	281,837
Restaurant Vendor	2,870,087	5.58	514,353
<b>PHASE 2</b>			
No Vendor Trips	--	--	0.00
<b>Total Operational Diesel Demand (gal)</b>			<b>3,098,938</b>

*Electricity and Natural Gas Use*

Electricity and natural gas would be required to provide energy to the proposed assisted living facility for indoor and outdoor lighting, office equipment, building cooling and heating, kitchen operations, and water heating. Energy demand was estimated using CalEEMod default calculations. The annual increase in electricity demand will be approximately 20,181,988 kilowatt hours per year (kWh/yr) and natural gas demand by 26,131,420 thousand British Thermal Units per year (kBtu/yr) before the incorporation of energy conservation measures. With incorporation of energy conservation measures, the annual increase in electricity demand will be approximately 11,408,298 kWh/yr of and natural gas demand by 25,437,020 kBtu/yr.

*Water and Wastewater*

Electricity will indirectly be required to treat and convey water to the project site and convey wastewater away from the project site. Water demand for the proposed project was estimated using CalEEMod default calculations. Electricity demand for water-related energy is estimated using the CEC *Refining Estimates of Water-Related Energy Use in California*.<sup>42</sup> Water demand is estimated to increase by approximately 65.89 million gallons per year (MGY) (without consideration of CALGREEN 2011 building code requirements). Wastewater discharges were estimated at 86.21 million gallons per year. Indirect energy demand for water and wastewater purposes is calculated as follows:

$$\text{Indirect}_w = (D_w * \text{Supply}) + (D_w * \text{Treat}) + (D_w * \text{Distribute})$$

Where:

- Indirect = Indirect Electricity Demand (kWh/year)
- D = Demand/Discharge (million gallons per year)
- Supply = Electricity Required to Supply (kWh)
- Treat = Electricity Required to Treat (kWh)
- Distribute = Electricity Required to Convey (kWh)
- W = Water or Wastewater

Indirect electricity demand for water and wastewater treatment and conveyance is detailed in Table 26 (Indirect Electricity Demand). Water and wastewater treatment and conveyance will increase by approximately 731,983 kWh/yr of electricity.

**Table 26  
Indirect Electricity Demand**

Source	MGY	Supply	Treat	Distribute	Total
<b>PHASE 1</b>					
Water	18.32	9,727	111	1,272	203,500
Wastewater	3.12	--	1,911	--	34,688
<i>Phase 1 Indirect Demand (kWh/yr)</i>					<i>238,187</i>
<b>PHASE 2</b>					
Water	44.45	9,727	111	1,272	493,796
Wastewater	0	--	1,911	--	0
<i>Phase 2 Indirect Demand (kWh/yr)</i>					<i>493,796</i>
<b>Total Indirect Demand (kWh/yr)</b>					<b>731,983</b>

### Energy Demand by Source

Short- and long-term energy demand is summarized in Table 23 (Energy Demand by Source). Electricity demand has been summarized by production source, based on the *Emissions and Generation Resource Integrated Database* (eGRID) for Southern California Edison (SCE).<sup>43</sup> Construction-related demand has been amortized over a 30-year period to compare to annual operational emissions.

### Energy Conservation

The proposed project will be subject to state water efficiency regulations pursuant to the California Building Code (CBC) that will reduce long-term project energy demand. These requirements would reduce wasteful, inefficient, and unnecessary consumption of energy over the long-term. The following quantifies energy demand reductions pursuant to these requirements.

#### California Building Code

Pursuant to the CBC CALGREEN requirements, the proposed project will be subject to the following requirements:<sup>44</sup>

- 20 percent reduction in water demand (5.303.2)
- 20 percent reduction in wastewater discharges (5.303.4)

#### *Reduce Water and Wastewater Demand (5.303.2 & 5.303.4)*

The minimum 20 percent reduction in water demand and wastewater discharges would decrease indoor water demand and wastewater discharges. This would result in a concurrent reduction in energy demand to supply, treat, and convey water and wastewater.

### **CONCLUSION**

With implementation of existing regulations, energy demand for the proposed project will not be wasteful, inefficient, or unnecessary.

**Table 27**  
**Energy Demand by Source Without Mitigation**

Activity	Gasoline (gal/yr)	Diesel (gal/yr)	Natural Gas (kBTU/yr)	Electricity (kWh/yr)				
				Coal	Oil	Natural Gas	Nuclear	Hydro
<b>PHASE 1</b>								
<i>Construction</i>								
Worker	638	--	--	--	--	--	--	--
Vendor/Hauler	--	1,104	--	--	--	--	--	--
Equipment	--	3,292	--	--	--	--	--	--
<i>Operational</i>								
Mobile	1,904,880	3,098,938	--	--	--	--	--	--
Natural Gas	--	--	17,487,800	--	--	--	--	--
Direct Electricity	--	--	--	5,674,700	15,473	11,596	9,289,804	2,551,684
Indirect Electricity	--	--	--	110,371	301	226	180,683	49,629
<i>Unmitigated Phase 1 Total</i>	<i>1,905,517</i>	<i>3,103,334</i>	<i>17,487,800</i>	<i>5,785,071</i>	<i>15,774</i>	<i>11,822</i>	<i>9,470,487</i>	<i>2,601,314</i>
<b>PHASE 2</b>								
<i>Construction</i>								
Worker	819	--	--	--	--	--	--	--
Vendor/Hauler	--	144	--	--	--	--	--	--
Equipment	--	20,760	--	--	--	--	--	--
<i>Operational</i>								
Mobile	311,344	--	--	--	--	--	--	--
Natural Gas	--	--	8,643,620	--	--	--	--	--
Direct Electricity	--	--	--	853,547	2,327	1,744	1,397,305	383,806
Indirect Electricity	--	--	--	179,694	490	367	294,169	80,801
<i>Unmitigated Phase 2 Total</i>	<i>312,163</i>	<i>20,904</i>	<i>8,643,620</i>	<i>1,033,241</i>	<i>2,817</i>	<i>2,111</i>	<i>1,691,474</i>	<i>464,607</i>
<b>Unmitigated Project Total</b>	<b>2,217,680</b>	<b>3,124,238</b>	<b>26,131,420</b>	<b>6,818,312</b>	<b>18,591</b>	<b>13,933</b>	<b>11,161,961</b>	<b>3,065,921</b>

**Table 28**  
**Energy Demand by Source With Mitigation**

Activity	Gasoline (gal/yr)	Diesel (gal/yr)	Natural Gas (kBTU/yr)	Electricity (kWh/yr)				
				Coal	Oil	Natural Gas	Nuclear	Hydro
<b>PHASE 1</b>								
<i>Construction</i>								
Worker	638	--	--	--	--	--	--	--
Vendor/Hauler	--	1,104	--	--	--	--	--	--
Equipment	--	3,292	--	--	--	--	--	--
<i>Operational</i>								
Mobile	1,454,612	2,366,424	--	--	--	--	--	--
Natural Gas	--	--	17,137,050	--	--	--	--	--
Direct Electricity	--	--	--	3,061,850	8,349	6,257	5,012,421	1,376,791
Indirect Electricity	--	--	--	96,456	263	197	157,904	43,372
<i>Mitigated Phase 1 Total</i>	<i>1,455,250</i>	<i>2,370,820</i>	<i>17,137,050</i>	<i>3,158,306</i>	<i>8,612</i>	<i>6,454</i>	<i>5,170,325</i>	<i>1,420,163</i>
<b>PHASE 2</b>								
<i>Construction</i>								
Worker	819	--	--	--	--	--	--	--
Vendor/Hauler	--	144	--	--	--	--	--	--
Equipment	--	20,760	--	--	--	--	--	--
<i>Operational</i>								
Mobile	250,692	--	--	--	--	--	--	--
Natural Gas	--	--	8,299,970	--	--	--	--	--
Direct Electricity	--	--	--	628,381	1,713	1,284	1,028,694	282,557
Indirect Electricity	--	--	--	179,539	490	367	293,916	80,732
<i>Mitigated Phase 2 Total</i>	<i>251,511</i>	<i>20,904</i>	<i>8,299,970</i>	<i>807,920</i>	<i>2,203</i>	<i>1,651</i>	<i>1,322,610</i>	<i>363,289</i>
<b>Mitigated Project Total</b>	<b>1,706,761</b>	<b>2,391,724</b>	<b>25,437,020</b>	<b>3,966,226</b>	<b>10,815</b>	<b>8,105</b>	<b>6,492,935</b>	<b>1,783,452</b>

## MITIGATION MEASURES

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- 4.2.B-1** Prior to issuance of building permits, construction drawings shall indicate the types of architectural coatings proposed to be used in interior and exterior applications on the proposed buildings and verification that daily application will conform to the performance standard that emissions of volatile organic compounds from application of interior or exterior coatings will not exceed the daily emissions thresholds established by the South Coast Air Quality Management District. The performance standard may be met through use of low-volatile organic compound coatings, scheduling, or other means that may be identified on the construction drawings. Construction drawing shall specify use of High-Volume, Low Pressure (HVLV) spray guns for application of coatings. This mitigation measure shall be incorporated to the satisfaction of and with oversight by the Building Division.
- 4.2.B-2** Prior to issuance of grading and subsequent permits, construction drawings shall indicate the types of equipment to be utilized for each phase of project construction and verification that daily construction activities will conform to the performance standard that emissions of oxides of nitrogen will not exceed the daily emissions thresholds established by the South Coast Air Quality Management District. The performance standard may be met through use of equipment with higher efficiency engines, scheduling, or other means that may be identified on the construction drawings. This mitigation measure shall be incorporated to the satisfaction of and with oversight by the Building Division.
- 4.2.B-3** Custodial employees of the proposed hotel, outlet mall, restaurants, and condominiums shall utilize low-volatile organic compound cleaning products. Landscape employees and/or contractors shall be prohibited from using gasoline powered equipment. This mitigation measure shall be implemented through standard practice by the management of the use and/or business subject to periodic inspection and enforcement by Code Enforcement.
- 4.2.B-4** Low-volatile organic compounds paints and other architectural coatings shall be used in periodic reapplication of these coatings to interior and exterior building surfaces. This mitigation measure shall be implemented through standard practice by the management of the use and/or business subject to periodic inspection and enforcement by the Building Division and/or Code Enforcement.

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## REFERENCES

- 1 Western Regional Climate Center. Period of Record Monthly Climate Summary: Montebello, California (045790). <http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca5790> [September 2014]
- 2 The Planning Center. *City of El Monte General Plan and Zoning Code Update Environmental Impact Report*. May 2011
- 3 South Coast Air Quality Management District. CEQA Air Quality Handbook. 1993
- 4 United States Environmental Protection Agency. Sulfur Dioxide. <http://www.epa.gov/airquality/sulfurdioxide/> [August 2014]
- 5 California Air Resources Board. Area Designations Maps – State and National. <http://www.arb.ca.gov/desig/adm/adm.htm> [September 2014]
- 6 South Coast Air Quality Management District. Historical Data by Year. 2010
- 7 South Coast Air Quality Management District. Historical Data by Year. 2011
- 8 South Coast Air Quality Management District. Historical Data by Year. 2012
- 9 Environmental Protection Agency. Envirofacts. <http://www.epa.gov/enviro/index.html> [September 2014]
- 10 Linscott, Law & Greenspan Engineers. Flair Spectrum Specific Plan Traffic Impact Analysis. October 6, 2014.
- 11 United States Environmental Protection Agency. Greenhouse Gas Emissions. [www.epa.gov/climatechange/emissions/index.html](http://www.epa.gov/climatechange/emissions/index.html) [September 2014]
- 12 Intergovernmental Panel on Climate Change. Changes in Atmospheric Constituents and in Radiative Forcing (Working Group I). Fourth Assessment Report. 2007
- 13 Ibid
- 14 California Natural Resources Agency. 2009 California Climate Adaptation Strategy.
- 15 United States Environmental Protection Agency. Clean Air Act. [www.epa.gov/air/caa/](http://www.epa.gov/air/caa/) [August 2014]
- 16 South Coast Air Quality Management District. Air Quality Management Plan. 2012
- 17 California Climate Action Team. Biennial Report. April 2010
- 18 Southern California Association of Governments. Senate Bill 375 Fact Sheet. [http://scag.ca.gov/Documents/SCAG\\_SB375\\_Factsheet.pdf](http://scag.ca.gov/Documents/SCAG_SB375_Factsheet.pdf) [September 2014]
- 19 California Air Resources Board. Climate Change Scoping Plan. December 2008
- 20 California Air Resources Board. AB 32 Climate Change, Scoping Plan Progress Report. September 2010
- 21 California Air Resources Board. Cap-and-Trade. <http://www.arb.ca.gov/cc/capandtrade/capandtrade.htm> [September 14, 2011]
- 22 California Building Standards Commission. California Code of Regulations Title 24. California Green Building Standards Code. 2010
- 23 Ibid 24
- 24 South Coast Air Quality Management District. CEQA Air Quality Handbook. 1993
- 25 Gordy's Concrete Pumping. Epic Systems, Concrete Parking Ramp at Center of Facility Expansion. <http://gordysconcretepumping.com/Projects/Epic-Systems.html> [October 1, 2014]
- 26 United States Environmental Protection Agency. Regulatory Announcement, New Emissions Standards for Nonroad Diesel Engines. EPA420-F-98-034. August 1998
- 27 Linscott, Law & Greenspan Engineers. Flair Spectrum Specific Plan Traffic Impact Analysis. October 6, 2014.
- 28 Ibid
- 29 Southern California Association of Governments. Employment Density Study. October 2001
- 30 Azul Hospitality Group. Sheraton El Monte Anticipated Employee Census. July 30, 2014
- 31 California Department of Transportation. Transportation Project-Level Carbon Monoxide Protocol. 1997
- 32 Sacramento Metropolitan Air Quality Management District. CEQA Guide. May 2011
- 33 California Air Pollution Control Officers Association. Quantifying Greenhouse Gas Emissions. August 2010
- 34 Linscott, Law & Greenspan Engineers. Flair Spectrum Specific Plan Traffic Impact Analysis. October 6, 2014
- 35 California Air Pollution Control Officers Association. Quantifying Greenhouse Gas Mitigation Measures. August 2010
- 36 Ibid

- 37 California Air Resources Board. California GHG Emissions – Forecast (2002-2020). October 2010
- 38 California Air Resources Board. Scoping Plan Measures Implementation Timeline. October 2010
- 39 California Air Resources Board. Technical Assessment. Comparison of Greenhouse Gas Reductions Under CAFÉ Standards and ARB Regulations Adopted Pursuant to AB1493. January 2008
- 40 National Highway Traffic Safety Administration. Draft Environmental Impact Statement. Medium- and Heavy-Duty Fuel Efficiency Improvement Program. October 2010
- 41 Pratt, David. Fundamentals of Construction Estimating. 2<sup>nd</sup> Ed. 2004
- 42 California Energy Commission. Refining Estimates of Water-Related Energy Use in California. 2006
- 43 United States Environmental Protection Agency. eGRIDweb: Southern California Edison Co. <http://www.epa.gov/cleanenergy/energy-resources/egrid/> [September 2014]
- 44 California Building Standards Commission. California Building Code. January 2011





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## Flair Spectrum Phase I Construction South Coast Air Basin, Summer

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	289.67	1000sqft	0.00	289,670.00	0
Enclosed Parking with Elevator	75.51	1000sqft	0.00	75,513.00	0
Other Asphalt Surfaces	1.87	Acre	1.87	0.00	0
Other Asphalt Surfaces	0.50	Acre	0.50	0.00	0
Other Asphalt Surfaces	0.69	Acre	0.69	0.00	0
Other Non-Asphalt Surfaces	1.56	Acre	1.56	0.00	0
Hotel	250.00	Room	0.62	240,000.00	0
Quality Restaurant	50.00	1000sqft	0.00	50,000.00	0
Regional Shopping Center	640.00	1000sqft	7.20	640,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9			<b>Operational Year</b>	2017
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	630.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

- Project Characteristics -
- Land Use - Revise Default Areas to Match Project
- Construction Phase - Adjust Schedule to Match Project
- Off-road Equipment -
- Off-road Equipment - Adjust to 0.5 Acres of Paving
- Off-road Equipment - Phase Reflects 0.62 Acre Site Area
- Off-road Equipment - Adjust Equipment to 0.62 Acres Site Area
- Off-road Equipment - Adjust Equipment to Include 0.62 Site Area and Use of Excavator
- Off-road Equipment - Adjust to 1.87 Acres of Paving
- Off-road Equipment - Adjust to 2.47 Acres Site Area and Use of Excavator
- Off-road Equipment - Add Pump and Cement Mixer for Parking Structure
- Off-road Equipment -
- Off-road Equipment - Add Pump and Cement Mixer for Parking Structure
- Off-road Equipment - Adjust to 7.20 Acres of Site Area
- Off-road Equipment - Adjust to 0.69 Acres of Paving
- Trips and VMT - Vendor Trips Estimated at 8 Per Day Per Contractor Estimates
- Peak Hotel Construction Workers at 100 Per Contractor Estimate
- Grading -
- Architectural Coating - Coating Area Adjusted to Building Sizes
- Vehicle Emission Factors -
- Vehicle Emission Factors -
- Vehicle Emission Factors -
- Construction Off-road Equipment Mitigation - Evaluate Tier IV COstruction Equipment

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	647,592.00	345,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	647,592.00	120,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,942,775.00	1,035,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,942,775.00	480,000.00
tblAreaCoating	Area_Nonresidential_Interior	1942775	1319730
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	18.00
tblConstructionPhase	NumDays	300.00	230.00
tblConstructionPhase	NumDays	30.00	35.00
tblConstructionPhase	NumDays	30.00	73.00
tblConstructionPhase	NumDays	30.00	27.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	20.00	18.00
tblConstructionPhase	PhaseEndDate	4/20/2016	9/5/2016
tblConstructionPhase	PhaseEndDate	10/10/2016	2/12/2016
tblConstructionPhase	PhaseEndDate	5/2/2016	1/20/2016
tblConstructionPhase	PhaseEndDate	9/14/2016	8/8/2016
tblConstructionPhase	PhaseEndDate	10/2/2017	9/14/2016
tblConstructionPhase	PhaseEndDate	2/26/2016	7/22/2015
tblConstructionPhase	PhaseStartDate	3/24/2016	8/9/2016
tblConstructionPhase	PhaseStartDate	9/15/2016	1/20/2016
tblConstructionPhase	PhaseStartDate	6/16/2015	3/5/2015
tblConstructionPhase	PhaseStartDate	7/23/2015	6/16/2015
tblConstructionPhase	PhaseStartDate	8/9/2016	7/23/2015
tblConstructionPhase	PhaseStartDate	1/21/2016	6/16/2015
tblGrading	MaterialExported	0.00	61,054.00
tblGrading	MaterialExported	0.00	79,016.00
tblGrading	MaterialExported	0.00	47,118.00
tblLandUse	LandUseSquareFeet	75,510.00	75,513.00
tblLandUse	LandUseSquareFeet	21,780.00	0.00
tblLandUse	LandUseSquareFeet	30,056.40	0.00
tblLandUse	LandUseSquareFeet	81,457.20	0.00
tblLandUse	LandUseSquareFeet	67,953.60	0.00
tblLandUse	LandUseSquareFeet	363,000.00	240,000.00

tblLandUse	LotAcreage	6.65	0.00
tblLandUse	LotAcreage	1.73	0.00
tblLandUse	LotAcreage	8.33	0.62
tblLandUse	LotAcreage	1.15	0.00
tblLandUse	LotAcreage	14.69	7.20
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblSolidWaste	SolidWasteGenerationRate	45.63	51.50
tblSolidWaste	SolidWasteGenerationRate	672.00	624.01
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblTripsAndVMT	VendorTripNumber	212.00	8.00
tblTripsAndVMT	VendorTripNumber	212.00	8.00
tblTripsAndVMT	VendorTripNumber	212.00	8.00
tblTripsAndVMT	WorkerTripNumber	96.00	17.00
tblTripsAndVMT	WorkerTripNumber	480.00	100.00
tblTripsAndVMT	WorkerTripNumber	480.00	85.00
tblTripsAndVMT	WorkerTripNumber	480.00	150.00
tblTripsAndVMT	WorkerTripNumber	96.00	20.00
tblWater	IndoorWaterUseRate	15,176,685.62	17,131,442.73
tblWater	IndoorWaterUseRate	47,406,413.75	44,021,299.52
tblWater	OutdoorWaterUseRate	968,724.61	1,093,496.34
tblWater	OutdoorWaterUseRate	29,055,543.91	26,980,796.48

## 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					
2015	14.5387	137.7614	114.8899	0.1981	18.2675	6.8551	21.3575	9.9840	6.3997	12.8269			19,719.1813	2.4154	0.0000	19,769.9055
2016	804.6347	92.5390	83.2927	0.1425	4.1181	6.1486	10.2667	1.0951	5.8170	6.9121			13,316.9256	2.1502	0.0000	13,362.0802
<b>Total</b>	<b>819.1734</b>	<b>230.3003</b>	<b>198.1825</b>	<b>0.3406</b>	<b>22.3855</b>	<b>13.0037</b>	<b>31.6242</b>	<b>11.0791</b>	<b>12.2168</b>	<b>19.7390</b>			<b>33,036.1069</b>	<b>4.5657</b>	<b>0.0000</b>	<b>33,131.9857</b>

## 3.0 Construction Detail

### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Clearing and Grubbing	Site Preparation	1/1/2015	1/14/2015	5	10	
2	Hotel Grading	Grading	1/15/2015	3/4/2015	5	35	
3	Retail Grading	Grading	3/5/2015	6/15/2015	5	73	
4	Hotel Construction	Building Construction	3/5/2015	1/20/2016	5	230	
5	Residential Grading	Grading	6/16/2015	7/22/2015	5	27	
6	Retail Construction	Building Construction	6/16/2015	8/8/2016	5	300	
7	Residential Parking	Building Construction	7/23/2015	9/14/2016	5	300	1 Basement + 5 Floors
8	Hotel Coatings	Architectural Coating	1/20/2016	2/12/2016	5	18	
9	On-Site Paving	Paving	2/13/2016	3/9/2016	5	18	
10	Flair Drive Paving	Paving	3/10/2016	3/16/2016	5	5	
11	Rio Hondo Paving	Paving	3/17/2016	3/23/2016	5	5	
12	Retail Coatings	Architectural Coating	8/9/2016	9/5/2016	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 480,000; Non-Residential Outdoor: 120,000 (Architectural Coating –

### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Clearing and Grubbing	Rubber Tired Dozers	3	8.00	255	0.40
Clearing and Grubbing	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Hotel Grading	Excavators	1	8.00	162	0.38
Hotel Grading	Graders	1	8.00	174	0.41
Hotel Grading	Rubber Tired Dozers	1	8.00	255	0.40
Hotel Grading	Scrapers	0	8.00	361	0.48
Hotel Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Retail Grading	Excavators	1	8.00	162	0.38
Retail Grading	Graders	1	8.00	174	0.41
Retail Grading	Rubber Tired Dozers	1	8.00	255	0.40
Retail Grading	Scrapers	0	8.00	361	0.48
Retail Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Hotel Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Hotel Construction	Cranes	1	7.00	226	0.29
Hotel Construction	Forklifts	2	8.00	89	0.20

Hotel Construction	Generator Sets	0	8.00	84	0.74
Hotel Construction	Pumps	1	6.00	84	0.74
Hotel Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Hotel Construction	Welders	0	8.00	46	0.45
Residential Grading	Excavators	2	8.00	162	0.38
Residential Grading	Graders	1	8.00	174	0.41
Residential Grading	Rubber Tired Dozers	1	8.00	255	0.40
Residential Grading	Scrapers	0	8.00	361	0.48
Residential Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Retail Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Retail Construction	Cranes	1	7.00	226	0.29
Retail Construction	Forklifts	3	8.00	89	0.20
Retail Construction	Generator Sets	1	8.00	84	0.74
Retail Construction	Pumps	1	6.00	84	0.74
Retail Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Retail Construction	Welders	1	8.00	46	0.45
Residential Parking	Cement and Mortar Mixers	1	8.00	9	0.56
Residential Parking	Cranes	1	7.00	226	0.29
Residential Parking	Forklifts	3	8.00	89	0.20
Residential Parking	Generator Sets	1	8.00	84	0.74
Residential Parking	Pumps	1	6.00	84	0.74
Residential Parking	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Residential Parking	Welders	1	8.00	46	0.45
Hotel Coatings	Air Compressors	1	6.00	78	0.48
On-Site Paving	Cement and Mortar Mixers	1	8.00	9	0.56
On-Site Paving	Pavers	1	8.00	125	0.42
On-Site Paving	Paving Equipment	1	8.00	130	0.36
On-Site Paving	Rollers	1	8.00	80	0.38
On-Site Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Flair Drive Paving	Cement and Mortar Mixers	4	8.00	9	0.56
Flair Drive Paving	Pavers	1	8.00	125	0.42
Flair Drive Paving	Paving Equipment	0	8.00	130	0.36
Flair Drive Paving	Rollers	1	8.00	80	0.38
Flair Drive Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Rio Hondo Paving	Cement and Mortar Mixers	4	8.00	9	0.56
Rio Hondo Paving	Pavers	1	8.00	125	0.42
Rio Hondo Paving	Paving Equipment	0	8.00	130	0.36
Rio Hondo Paving	Rollers	1	8.00	80	0.38
Rio Hondo Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Retail Coatings	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Clearing and Grubbing	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Hotel Grading	5	13.00	0.00	7,632.00	14.70	6.90	10.00	LD_Mix	HDT_Mix	HHDT
Retail Grading	6	15.00	0.00	9,877.00	14.70	6.90	10.00	LD_Mix	HDT_Mix	HHDT
Hotel Construction	7	100.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Grading	6	15.00	0.00	5,890.00	14.70	6.90	10.00	LD_Mix	HDT_Mix	HHDT
Retail Construction	11	85.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Parking	11	150.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Hotel Coatings	1	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
On-Site Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flair Drive Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rio Hondo Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Retail Coatings	1	17.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Clean Paved Roads

**3.2 Clearing and Grubbing - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412			4,111.7444	1.2275		4,137.5225
<b>Total</b>	<b>5.2609</b>	<b>56.8897</b>	<b>42.6318</b>	<b>0.0391</b>	<b>18.0663</b>	<b>3.0883</b>	<b>21.1545</b>	<b>9.9307</b>	<b>2.8412</b>	<b>12.7719</b>			<b>4,111.7444</b>	<b>1.2275</b>		<b>4,137.5225</b>

**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
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
Worker	0.0830	0.1039	1.2894	2.5500e-003	0.2012	1.7700e-003	0.2030	0.0534	1.6200e-003	0.0550			221.7657	0.0119		222.0162
<b>Total</b>	<b>0.0830</b>	<b>0.1039</b>	<b>1.2894</b>	<b>2.5500e-003</b>	<b>0.2012</b>	<b>1.7700e-003</b>	<b>0.2030</b>	<b>0.0534</b>	<b>1.6200e-003</b>	<b>0.0550</b>			<b>221.7657</b>	<b>0.0119</b>		<b>222.0162</b>

**3.3 Hotel Grading - 2015**

**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					6.7496	0.0000	6.7496	3.3974	0.0000	3.3974			0.0000			0.0000
Off-Road	3.4723	36.9840	24.2475	0.0267		2.0597	2.0597		1.8949	1.8949			2,801.5281	0.8364		2,819.0920
<b>Total</b>	<b>3.4723</b>	<b>36.9840</b>	<b>24.2475</b>	<b>0.0267</b>	<b>6.7496</b>	<b>2.0597</b>	<b>8.8093</b>	<b>3.3974</b>	<b>1.8949</b>	<b>5.2923</b>			<b>2,801.5281</b>	<b>0.8364</b>		<b>2,819.0920</b>

**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	2.9188	36.5778	36.4416	0.0828	1.9013	0.5923	2.4935	0.5208	0.5447	1.0654			8,404.2215	0.0707		8,405.7052
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
Worker	0.0600	0.0750	0.9312	1.8400e-003	0.1453	1.2800e-003	0.1466	0.0385	1.1700e-003	0.0397			160.1641	8.6200e-003		160.3451
<b>Total</b>	<b>2.9788</b>	<b>36.6528</b>	<b>37.3728</b>	<b>0.0846</b>	<b>2.0466</b>	<b>0.5935</b>	<b>2.6401</b>	<b>0.5593</b>	<b>0.5458</b>	<b>1.1052</b>			<b>8,564.3856</b>	<b>0.0793</b>		<b>8,566.0502</b>

**3.4 Retail Grading - 2015**

**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					6.6748	0.0000	6.6748	3.3860	0.0000	3.3860			0.0000			0.0000
Off-Road	3.8327	40.4161	26.6731	0.0298		2.3284	2.3284		2.1421	2.1421			3,129.0158	0.9341		3,148.6328
<b>Total</b>	<b>3.8327</b>	<b>40.4161</b>	<b>26.6731</b>	<b>0.0298</b>	<b>6.6748</b>	<b>2.3284</b>	<b>9.0031</b>	<b>3.3860</b>	<b>2.1421</b>	<b>5.5281</b>			<b>3,129.0158</b>	<b>0.9341</b>		<b>3,148.6328</b>

**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	1.8111	22.6960	22.6115	0.0514	1.1797	0.3675	1.5472	0.3231	0.3380	0.6611			5,214.7005	0.0438		5,215.6211
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0692	0.0866	1.0745	2.1300e-003	0.1677	1.4800e-003	0.1691	0.0445	1.3500e-003	0.0458			184.8048	9.9400e-003		185.0135
<b>Total</b>	<b>1.8803</b>	<b>22.7826</b>	<b>23.6860</b>	<b>0.0535</b>	<b>1.3474</b>	<b>0.3690</b>	<b>1.7163</b>	<b>0.3676</b>	<b>0.3393</b>	<b>0.7069</b>			<b>5,399.5052</b>	<b>0.0538</b>		<b>5,400.6346</b>

**3.5 Hotel Construction - 2015**

**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	2.3799	22.2113	12.7104	0.0191		1.4847	1.4847		1.3911	1.3911			1,929.9392	0.4770		1,939.9559
<b>Total</b>	<b>2.3799</b>	<b>22.2113</b>	<b>12.7104</b>	<b>0.0191</b>		<b>1.4847</b>	<b>1.4847</b>		<b>1.3911</b>	<b>1.3911</b>			<b>1,929.9392</b>	<b>0.4770</b>		<b>1,939.9559</b>

**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
Vendor	0.0756	0.7861	0.8672	1.7400e-003	0.0500	0.0136	0.0636	0.0142	0.0125	0.0267			176.4981	1.3900e-003		176.5272
Worker	0.4612	0.5772	7.1632	0.0142	1.1178	9.8400e-003	1.1276	0.2964	9.0200e-003	0.3055			1,232.0317	0.0663		1,233.4235
<b>Total</b>	<b>0.5368</b>	<b>1.3633</b>	<b>8.0304</b>	<b>0.0159</b>	<b>1.1677</b>	<b>0.0234</b>	<b>1.1912</b>	<b>0.3107</b>	<b>0.0215</b>	<b>0.3322</b>			<b>1,408.5298</b>	<b>0.0677</b>		<b>1,409.9507</b>

### 3.5 Hotel Construction - 2016

#### 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	2.2403	21.1192	12.5649	0.0191		1.3861	1.3861		1.2977	1.2977			1,914.6269	0.4718		1,924.5347
<b>Total</b>	<b>2.2403</b>	<b>21.1192</b>	<b>12.5649</b>	<b>0.0191</b>		<b>1.3861</b>	<b>1.3861</b>		<b>1.2977</b>	<b>1.2977</b>			<b>1,914.6269</b>	<b>0.4718</b>		<b>1,924.5347</b>

#### 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
Vendor	0.0668	0.6948	0.7980	1.7400e-003	0.0500	0.0113	0.0613	0.0142	0.0104	0.0246			174.5584	1.2500e-003		174.5847
Worker	0.4163	0.5207	6.4863	0.0142	1.1178	9.3400e-003	1.1271	0.2964	8.5900e-003	0.3050			1,189.5826	0.0610		1,190.8632
<b>Total</b>	<b>0.4831</b>	<b>1.2154</b>	<b>7.2843</b>	<b>0.0159</b>	<b>1.1678</b>	<b>0.0206</b>	<b>1.1884</b>	<b>0.3107</b>	<b>0.0190</b>	<b>0.3296</b>			<b>1,364.1409</b>	<b>0.0622</b>		<b>1,365.4479</b>

### 3.6 Residential Grading - 2015

#### 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					6.7497	0.0000	6.7497	3.3974	0.0000	3.3974			0.0000			0.0000
Off-Road	3.8889	41.8488	27.6867	0.0320		2.2998	2.2998		2.1159	2.1159			3,357.0832	1.0022		3,378.1300
<b>Total</b>	<b>3.8889</b>	<b>41.8488</b>	<b>27.6867</b>	<b>0.0320</b>	<b>6.7497</b>	<b>2.2998</b>	<b>9.0495</b>	<b>3.3974</b>	<b>2.1159</b>	<b>5.5132</b>			<b>3,357.0832</b>	<b>1.0022</b>		<b>3,378.1300</b>

#### 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	2.9201	36.5930	36.4568	0.0828	1.9021	0.5925	2.4946	0.5210	0.5449	1.0659			8,407.7290	0.0707		8,409.2133
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
Worker	0.0692	0.0866	1.0745	2.1300e-003	0.1677	1.4800e-003	0.1691	0.0445	1.3500e-003	0.0458			184.8048	9.9400e-003		185.0135
<b>Total</b>	<b>2.9892</b>	<b>36.6796</b>	<b>37.5313</b>	<b>0.0849</b>	<b>2.0697</b>	<b>0.5940</b>	<b>2.6637</b>	<b>0.5655</b>	<b>0.5462</b>	<b>1.1117</b>			<b>8,592.5337</b>	<b>0.0806</b>		<b>8,594.2268</b>

### 3.7 Retail Construction - 2015

#### 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	4.2763	34.3817	21.9751	0.0325		2.4312	2.4312		2.3049	2.3049			3,207.3703	0.7302		3,222.7049
<b>Total</b>	<b>4.2763</b>	<b>34.3817</b>	<b>21.9751</b>	<b>0.0325</b>		<b>2.4312</b>	<b>2.4312</b>		<b>2.3049</b>	<b>2.3049</b>			<b>3,207.3703</b>	<b>0.7302</b>		<b>3,222.7049</b>

**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
Vendor	0.0756	0.7861	0.8672	1.7400e-003	0.0500	0.0136	0.0636	0.0142	0.0125	0.0267			176.4981	1.3900e-003		176.5272
Worker	0.3920	0.4906	6.0887	0.0120	0.9501	8.3600e-003	0.9585	0.2520	7.6600e-003	0.2596			1,047.2270	0.0563		1,048.4100
<b>Total</b>	<b>0.4676</b>	<b>1.2767</b>	<b>6.9559</b>	<b>0.0138</b>	<b>1.0001</b>	<b>0.0220</b>	<b>1.0220</b>	<b>0.2662</b>	<b>0.0202</b>	<b>0.2864</b>			<b>1,223.7251</b>	<b>0.0577</b>		<b>1,224.9372</b>

**3.7 Retail Construction - 2016**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.9666	32.5575	21.7117	0.0325		2.2495	2.2495		2.1305	2.1305			3,187.0787	0.7125		3,202.0412
<b>Total</b>	<b>3.9666</b>	<b>32.5575</b>	<b>21.7117</b>	<b>0.0325</b>		<b>2.2495</b>	<b>2.2495</b>		<b>2.1305</b>	<b>2.1305</b>			<b>3,187.0787</b>	<b>0.7125</b>		<b>3,202.0412</b>

**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
Vendor	0.0668	0.6948	0.7980	1.7400e-003	0.0500	0.0113	0.0613	0.0142	0.0104	0.0246			174.5584	1.2500e-003		174.5847
Worker	0.3539	0.4426	5.5134	0.0120	0.9501	7.9400e-003	0.9580	0.2520	7.3000e-003	0.2593			1,011.1452	0.0518		1,012.2337
<b>Total</b>	<b>0.4207</b>	<b>1.1373</b>	<b>6.3114</b>	<b>0.0138</b>	<b>1.0001</b>	<b>0.0192</b>	<b>1.0193</b>	<b>0.2662</b>	<b>0.0177</b>	<b>0.2839</b>			<b>1,185.7035</b>	<b>0.0531</b>		<b>1,186.8184</b>

**3.8 Residential Parking - 2015**

**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	4.2763	34.3817	21.9751	0.0325		2.4312	2.4312		2.3049	2.3049			3,207.3703	0.7302		3,222.7049
<b>Total</b>	<b>4.2763</b>	<b>34.3817</b>	<b>21.9751</b>	<b>0.0325</b>		<b>2.4312</b>	<b>2.4312</b>		<b>2.3049</b>	<b>2.3049</b>			<b>3,207.3703</b>	<b>0.7302</b>		<b>3,222.7049</b>

**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
Vendor	0.0756	0.7861	0.8672	1.7400e-003	0.0500	0.0136	0.0636	0.0142	0.0125	0.0267			176.4981	1.3900e-003		176.5272
Worker	0.6918	0.8657	10.7447	0.0213	1.6767	0.0148	1.6914	0.4447	0.0135	0.4582			1,848.0476	0.0994		1,850.1352
<b>Total</b>	<b>0.7674</b>	<b>1.6519</b>	<b>11.6120</b>	<b>0.0230</b>	<b>1.7266</b>	<b>0.0283</b>	<b>1.7550</b>	<b>0.4589</b>	<b>0.0260</b>	<b>0.4849</b>			<b>2,024.5457</b>	<b>0.1008</b>		<b>2,026.6625</b>

### 3.8 Residential Parking - 2016

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.9666	32.5575	21.7117	0.0325		2.2495	2.2495		2.1305	2.1305			3,187.0787	0.7125		3,202.0412
<b>Total</b>	<b>3.9666</b>	<b>32.5575</b>	<b>21.7117</b>	<b>0.0325</b>		<b>2.2495</b>	<b>2.2495</b>		<b>2.1305</b>	<b>2.1305</b>			<b>3,187.0787</b>	<b>0.7125</b>		<b>3,202.0412</b>

#### 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
Vendor	0.0668	0.6948	0.7980	1.7400e-003	0.0500	0.0113	0.0613	0.0142	0.0104	0.0246			174.5584	1.2500e-003		174.5847
Worker	0.6245	0.7810	9.7295	0.0212	1.6767	0.0140	1.6907	0.4447	0.0129	0.4575			1,784.3739	0.0915		1,786.2948
<b>Total</b>	<b>0.6913</b>	<b>1.4757</b>	<b>10.5275</b>	<b>0.0230</b>	<b>1.7267</b>	<b>0.0253</b>	<b>1.7519</b>	<b>0.4589</b>	<b>0.0233</b>	<b>0.4822</b>			<b>1,958.9322</b>	<b>0.0927</b>		<b>1,960.8795</b>

### 3.9 Hotel Coatings - 2016

#### 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	386.2500					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966			281.4481	0.0332		282.1449
<b>Total</b>	<b>386.6185</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>			<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</b>

#### 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
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
Worker	0.0833	0.1041	1.2973	2.8300e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610			237.9165	0.0122		238.1726
<b>Total</b>	<b>0.0833</b>	<b>0.1041</b>	<b>1.2973</b>	<b>2.8300e-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>237.9165</b>	<b>0.0122</b>		<b>238.1726</b>

### 3.10 On-Site Paving - 2016

#### 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	1.4443	14.8172	10.1298	0.0150		0.8960	0.8960		0.8255	0.8255			1,532.3821	0.4522		1,541.8788
Paving	0.4454					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.8897</b>	<b>14.8172</b>	<b>10.1298</b>	<b>0.0150</b>		<b>0.8960</b>	<b>0.8960</b>		<b>0.8255</b>	<b>0.8255</b>			<b>1,532.3821</b>	<b>0.4522</b>		<b>1,541.8788</b>

**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
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
Worker	0.0541	0.0677	0.8432	1.8400e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397			154.6457	7.9300e-003		154.8122
<b>Total</b>	<b>0.0541</b>	<b>0.0677</b>	<b>0.8432</b>	<b>1.8400e-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>154.6457</b>	<b>7.9300e-003</b>		<b>154.8122</b>

**3.11 Flair Drive Paving - 2016**

**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	1.3139	12.3575	8.5117	0.0131		0.7635	0.7635		0.7071	0.7071			1,267.2474	0.3423		1,274.4351
Paving	1.6034					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.9174</b>	<b>12.3575</b>	<b>8.5117</b>	<b>0.0131</b>		<b>0.7635</b>	<b>0.7635</b>		<b>0.7071</b>	<b>0.7071</b>			<b>1,267.2474</b>	<b>0.3423</b>		<b>1,274.4351</b>

**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
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
Worker	0.0749	0.0937	1.1675	2.5500e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549			214.1249	0.0110		214.3554
<b>Total</b>	<b>0.0749</b>	<b>0.0937</b>	<b>1.1675</b>	<b>2.5500e-003</b>	<b>0.2012</b>	<b>1.6800e-003</b>	<b>0.2029</b>	<b>0.0534</b>	<b>1.5500e-003</b>	<b>0.0549</b>			<b>214.1249</b>	<b>0.0110</b>		<b>214.3554</b>

**3.12 Rio Hondo Paving - 2016**

**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	1.3139	12.3575	8.5117	0.0131		0.7635	0.7635		0.7071	0.7071			1,267.2474	0.3423		1,274.4351
Paving	1.6034					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.9174</b>	<b>12.3575</b>	<b>8.5117</b>	<b>0.0131</b>		<b>0.7635</b>	<b>0.7635</b>		<b>0.7071</b>	<b>0.7071</b>			<b>1,267.2474</b>	<b>0.3423</b>		<b>1,274.4351</b>

**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
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
Worker	0.0749	0.0937	1.1675	2.5500e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549			214.1249	0.0110		214.3554
<b>Total</b>	<b>0.0749</b>	<b>0.0937</b>	<b>1.1675</b>	<b>2.5500e-003</b>	<b>0.2012</b>	<b>1.6800e-003</b>	<b>0.2029</b>	<b>0.0534</b>	<b>1.5500e-003</b>	<b>0.0549</b>			<b>214.1249</b>	<b>0.0110</b>		<b>214.3554</b>

### 3.13 Retail Coatings - 2016

#### 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	799.5375					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966			281.4481	0.0332		282.1449
<b>Total</b>	<b>799.9060</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>			<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</b>

#### 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
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
Worker	0.0708	0.0885	1.1027	2.4100e-003	0.1900	1.5900e-003	0.1916	0.0504	1.4600e-003	0.0519			202.2290	0.0104		202.4467
<b>Total</b>	<b>0.0708</b>	<b>0.0885</b>	<b>1.1027</b>	<b>2.4100e-003</b>	<b>0.1900</b>	<b>1.5900e-003</b>	<b>0.1916</b>	<b>0.0504</b>	<b>1.4600e-003</b>	<b>0.0519</b>			<b>202.2290</b>	<b>0.0104</b>		<b>202.4467</b>

## Flair Spectrum Phase I Construction Mitigated South Coast Air Basin, Summer

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	289.67	1000sqft	0.00	289,670.00	0
Enclosed Parking with Elevator	75.51	1000sqft	0.00	75,513.00	0
Other Asphalt Surfaces	1.87	Acre	1.87	0.00	0
Other Asphalt Surfaces	0.50	Acre	0.50	0.00	0
Other Asphalt Surfaces	0.69	Acre	0.69	0.00	0
Other Non-Asphalt Surfaces	1.56	Acre	1.56	0.00	0
Hotel	250.00	Room	0.62	240,000.00	0
Quality Restaurant	50.00	1000sqft	0.00	50,000.00	0
Regional Shopping Center	640.00	1000sqft	7.20	640,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9	<b>Operational Year</b>		2017	
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	630.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

- Project Characteristics -
- Land Use - Revise Default Areas to Match Project
- Construction Phase - Adjust Schedule to Match Project
- Off-road Equipment -
- Off-road Equipment - Adjust to 0.5 Acres of Paving
- Off-road Equipment - Phase Reflects 0.62 Acre Site Area
- Off-road Equipment - Adjust Equipment to 0.62 Acres Site Area
- Off-road Equipment - Adjust Equipment to Include 0.62 Site Area and Use of Excavator
- Off-road Equipment - Adjust to 1.87 Acres of Paving
- Off-road Equipment - Adjust to 2.47 Acres Site Area and Use of Excavator
- Off-road Equipment - Add Pump and Cement Mixer for Parking Structure
- Off-road Equipment -
- Off-road Equipment - Add Pump and Cement Mixer for Parking Structure
- Off-road Equipment - Adjust to 7.20 Acres of Site Area
- Off-road Equipment - Adjust to 0.69 Acres of Paving
- Trips and VMT - Vendor Trips Estimated at 8 Per Day Per Contractor Estimates
- Peak Hotel Construction Workers at 100 Per Contractor Estimate
- Peak Retail Construction Workers at 85 Per Contractor Estimates
- Peak Retail Construction Workers at 150 Per Contractor Estimates
- Grading -
- Architectural Coating - Coating Area Adjusted to Building Sizes
- Vehicle Emission Factors -
- Vehicle Emission Factors -
- Vehicle Emission Factors -
- Construction Off-Road Equipment Mitigation - Evaluate Tier IV Construction Equipment



tblConstructionPhase	PhaseEndDate	9/14/2016	8/8/2016
tblConstructionPhase	PhaseEndDate	10/2/2017	9/14/2016
tblConstructionPhase	PhaseEndDate	2/26/2016	7/22/2015
tblConstructionPhase	PhaseStartDate	3/24/2016	8/9/2016
tblConstructionPhase	PhaseStartDate	9/15/2016	1/20/2016
tblConstructionPhase	PhaseStartDate	6/16/2015	3/5/2015
tblConstructionPhase	PhaseStartDate	7/23/2015	6/16/2015
tblConstructionPhase	PhaseStartDate	8/9/2016	7/23/2015
tblConstructionPhase	PhaseStartDate	1/21/2016	6/16/2015
tblGrading	MaterialExported	0.00	61,054.00
tblGrading	MaterialExported	0.00	79,016.00
tblGrading	MaterialExported	0.00	47,118.00
tblLandUse	LandUseSquareFeet	75,510.00	75,513.00
tblLandUse	LandUseSquareFeet	21,780.00	0.00
tblLandUse	LandUseSquareFeet	30,056.40	0.00
tblLandUse	LandUseSquareFeet	81,457.20	0.00
tblLandUse	LandUseSquareFeet	67,953.60	0.00
tblLandUse	LandUseSquareFeet	363,000.00	240,000.00
tblLandUse	LotAcreage	6.65	0.00
tblLandUse	LotAcreage	1.73	0.00
tblLandUse	LotAcreage	8.33	0.62
tblLandUse	LotAcreage	1.15	0.00
tblLandUse	LotAcreage	14.69	7.20
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblSolidWaste	SolidWasteGenerationRate	45.63	51.50
tblSolidWaste	SolidWasteGenerationRate	672.00	624.01
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblTripsAndVMT	VendorTripNumber	212.00	8.00
tblTripsAndVMT	VendorTripNumber	212.00	8.00
tblTripsAndVMT	VendorTripNumber	212.00	8.00

tblTripsAndVMT	WorkerTripNumber	96.00	17.00
tblTripsAndVMT	WorkerTripNumber	480.00	100.00
tblTripsAndVMT	WorkerTripNumber	480.00	85.00
tblTripsAndVMT	WorkerTripNumber	480.00	150.00
tblTripsAndVMT	WorkerTripNumber	96.00	20.00
tblWater	IndoorWaterUseRate	15,176,685.62	17,131,442.73
tblWater	IndoorWaterUseRate	47,406,413.75	44,021,299.52
tblWater	OutdoorWaterUseRate	968,724.61	1,093,496.34
tblWater	OutdoorWaterUseRate	29,055,543.91	26,980,796.48

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### 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					
2015	4.9733	44.3789	105.9918	0.1981	18.2675	0.7671	18.3327	9.9840	0.7156	10.0491			19,719.1813	2.4154	0.0000	19,769.9055
2016	3.6677	9.8747	79.8486	0.1425	4.1181	0.1939	4.3120	1.0951	0.1885	1.2836			13,316.9256	2.1502	0.0000	13,362.0802
<b>Total</b>	<b>8.6410</b>	<b>54.2536</b>	<b>185.8403</b>	<b>0.3406</b>	<b>22.3855</b>	<b>0.9610</b>	<b>22.6446</b>	<b>11.0791</b>	<b>0.9041</b>	<b>11.3327</b>			<b>33,036.1068</b>	<b>4.5657</b>	<b>0.0000</b>	<b>33,131.9857</b>

## 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Clearing and Grubbing	Site Preparation	1/1/2015	1/14/2015	5	10	
2	Hotel Grading	Grading	1/15/2015	3/4/2015	5	35	
3	Retail Grading	Grading	3/5/2015	6/15/2015	5	73	
4	Hotel Construction	Building Construction	3/5/2015	1/20/2016	5	230	
5	Residential Grading	Grading	6/16/2015	7/22/2015	5	27	
6	Retail Construction	Building Construction	6/16/2015	8/8/2016	5	300	
7	Residential Parking	Building Construction	7/23/2015	9/14/2016	5	300	1 Basement + 5 Floors
8	Hotel Coatings	Architectural Coating	1/20/2016	2/12/2016	5	18	
9	On-Site Paving	Paving	2/13/2016	3/9/2016	5	18	
10	Flair Drive Paving	Paving	3/10/2016	3/16/2016	5	5	
11	Rio Hondo Paving	Paving	3/17/2016	3/23/2016	5	5	
12	Retail Coatings	Architectural Coating	8/9/2016	9/5/2016	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 480,000; Non-Residential Outdoor: 120,000 (Architectural Coating)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Clearing and Grubbing	Rubber Tired Dozers	3	8.00	255	0.40
Clearing and Grubbing	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Hotel Grading	Excavators	1	8.00	162	0.38
Hotel Grading	Graders	1	8.00	174	0.41
Hotel Grading	Rubber Tired Dozers	1	8.00	255	0.40
Hotel Grading	Scrapers	0	8.00	361	0.48

Hotel Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Retail Grading	Excavators	1	8.00	162	0.38
Retail Grading	Graders	1	8.00	174	0.41
Retail Grading	Rubber Tired Dozers	1	8.00	255	0.40
Retail Grading	Scrapers	0	8.00	361	0.48
Retail Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Hotel Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Hotel Construction	Cranes	1	7.00	226	0.29
Hotel Construction	Forklifts	2	8.00	89	0.20
Hotel Construction	Generator Sets	0	8.00	84	0.74
Hotel Construction	Pumps	1	6.00	84	0.74
Hotel Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Hotel Construction	Welders	0	8.00	46	0.45
Residential Grading	Excavators	2	8.00	162	0.38
Residential Grading	Graders	1	8.00	174	0.41
Residential Grading	Rubber Tired Dozers	1	8.00	255	0.40
Residential Grading	Scrapers	0	8.00	361	0.48
Residential Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Retail Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Retail Construction	Cranes	1	7.00	226	0.29
Retail Construction	Forklifts	3	8.00	89	0.20
Retail Construction	Generator Sets	1	8.00	84	0.74
Retail Construction	Pumps	1	6.00	84	0.74
Retail Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Retail Construction	Welders	1	8.00	46	0.45
Residential Parking	Cement and Mortar Mixers	1	8.00	9	0.56
Residential Parking	Cranes	1	7.00	226	0.29
Residential Parking	Forklifts	3	8.00	89	0.20
Residential Parking	Generator Sets	1	8.00	84	0.74
Residential Parking	Pumps	1	6.00	84	0.74
Residential Parking	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Residential Parking	Welders	1	8.00	46	0.45
Hotel Coatings	Air Compressors	1	6.00	78	0.48
On-Site Paving	Cement and Mortar Mixers	1	8.00	9	0.56
On-Site Paving	Pavers	1	8.00	125	0.42
On-Site Paving	Paving Equipment	1	8.00	130	0.36
On-Site Paving	Rollers	1	8.00	80	0.38
On-Site Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Flair Drive Paving	Cement and Mortar Mixers	4	8.00	9	0.56
Flair Drive Paving	Pavers	1	8.00	125	0.42
Flair Drive Paving	Paving Equipment	0	8.00	130	0.36
Flair Drive Paving	Rollers	1	8.00	80	0.38
Flair Drive Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Rio Hondo Paving	Cement and Mortar Mixers	4	8.00	9	0.56
Rio Hondo Paving	Pavers	1	8.00	125	0.42
Rio Hondo Paving	Paving Equipment	0	8.00	130	0.36
Rio Hondo Paving	Rollers	1	8.00	80	0.38
Rio Hondo Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Retail Coatings	Air Compressors	1	6.00	78	0.48

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class	
Clearing and Grubbing		7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Hotel Grading		5	13.00	0.00	7,632.00	14.70	6.90	10.00	LD_Mix	HDT_Mix	HHDT
Retail Grading		6	15.00	0.00	9,877.00	14.70	6.90	10.00	LD_Mix	HDT_Mix	HHDT
Hotel Construction		7	100.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Grading		6	15.00	0.00	5,890.00	14.70	6.90	10.00	LD_Mix	HDT_Mix	HHDT
Retail Construction		1	85.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Parking		11	150.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Hotel Coatings		1	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
On-Site Paving		5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flair Drive Paving		7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rio Hondo Paving		7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Retail Coatings		1	17.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Clean Paved Roads

### 3.2 Clearing and Grubbing - 2015

#### 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	0.4757	2.0615	21.2415	0.0391		0.0634	0.0634		0.0634	0.0634			4,111.7444	1.2275		4,137.5224
<b>Total</b>	<b>0.4757</b>	<b>2.0615</b>	<b>21.2415</b>	<b>0.0391</b>	<b>18.0663</b>	<b>0.0634</b>	<b>18.1297</b>	<b>9.9307</b>	<b>0.0634</b>	<b>9.9941</b>			<b>4,111.7444</b>	<b>1.2275</b>		<b>4,137.5224</b>

#### 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
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
Worker	0.0830	0.1039	1.2894	2.5500e-003	0.2012	1.7700e-003	0.2030	0.0534	1.6200e-003	0.0550			221.7657	0.0119		222.0162
<b>Total</b>	<b>0.0830</b>	<b>0.1039</b>	<b>1.2894</b>	<b>2.5500e-003</b>	<b>0.2012</b>	<b>1.7700e-003</b>	<b>0.2030</b>	<b>0.0534</b>	<b>1.6200e-003</b>	<b>0.0550</b>			<b>221.7657</b>	<b>0.0119</b>		<b>222.0162</b>

### 3.3 Hotel Grading - 2015

#### 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					6.7496	0.0000	6.7496	3.3974	0.0000	3.3974			0.0000			0.0000
Off-Road	0.3245	1.4063	17.3145	0.0267		0.0433	0.0433		0.0433	0.0433			2,801.5281	0.8364		2,819.0920
<b>Total</b>	<b>0.3245</b>	<b>1.4063</b>	<b>17.3145</b>	<b>0.0267</b>	<b>6.7496</b>	<b>0.0433</b>	<b>6.7929</b>	<b>3.3974</b>	<b>0.0433</b>	<b>3.4406</b>			<b>2,801.5281</b>	<b>0.8364</b>		<b>2,819.0920</b>

**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	2.9188	36.5778	36.4416	0.0828	1.9013	0.5923	2.4935	0.5208	0.5447	1.0654			8,404.2215	0.0707		8,405.7052
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
Worker	0.0600	0.0750	0.9312	1.8400e-003	0.1453	1.2800e-003	0.1466	0.0385	1.1700e-003	0.0397			160.1641	8.6200e-003		160.3451
<b>Total</b>	<b>2.9788</b>	<b>36.6528</b>	<b>37.3728</b>	<b>0.0846</b>	<b>2.0466</b>	<b>0.5935</b>	<b>2.6401</b>	<b>0.5593</b>	<b>0.5458</b>	<b>1.1052</b>			<b>8,564.3856</b>	<b>0.0793</b>		<b>8,566.0502</b>

**3.4 Retail Grading - 2015**

**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					6.6748	0.0000	6.6748	3.3860	0.0000	3.3860			0.0000			0.0000
Off-Road	0.3625	1.5709	19.6566	0.0298		0.0483	0.0483		0.0483	0.0483			3,129.0158	0.9341		3,148.6328
<b>Total</b>	<b>0.3625</b>	<b>1.5709</b>	<b>19.6566</b>	<b>0.0298</b>	<b>6.6748</b>	<b>0.0483</b>	<b>6.7231</b>	<b>3.3860</b>	<b>0.0483</b>	<b>3.4344</b>			<b>3,129.0158</b>	<b>0.9341</b>		<b>3,148.6328</b>

**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	1.8111	22.6960	22.6115	0.0514	1.1797	0.3675	1.5472	0.3231	0.3380	0.6611			5,214.7005	0.0438		5,215.6211
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000
Worker	0.0692	0.0866	1.0745	2.1300e-003	0.1677	1.4800e-003	0.1691	0.0445	1.3500e-003	0.0458			184.8048	9.9400e-003		185.0135
<b>Total</b>	<b>1.8803</b>	<b>22.7826</b>	<b>23.6860</b>	<b>0.0535</b>	<b>1.3474</b>	<b>0.3690</b>	<b>1.7163</b>	<b>0.3676</b>	<b>0.3393</b>	<b>0.7069</b>			<b>5,399.5052</b>	<b>0.0538</b>		<b>5,400.6346</b>

**3.5 Hotel Construction - 2015**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2142	0.9280	11.6892	0.0191		0.0286	0.0286		0.0286	0.0286			1,929.9392	0.4770		1,939.9559
<b>Total</b>	<b>0.2142</b>	<b>0.9280</b>	<b>11.6892</b>	<b>0.0191</b>		<b>0.0286</b>	<b>0.0286</b>		<b>0.0286</b>	<b>0.0286</b>			<b>1,929.9392</b>	<b>0.4770</b>		<b>1,939.9559</b>

**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
Vendor	0.0756	0.7861	0.8672	1.7400e-003	0.0500	0.0136	0.0636	0.0142	0.0125	0.0267			176.4981	1.3900e-003		176.5272
Worker	0.4612	0.5772	7.1632	0.0142	1.1178	9.8400e-003	1.1276	0.2964	9.0200e-003	0.3055			1,232.0317	0.0663		1,233.4235
<b>Total</b>	<b>0.5368</b>	<b>1.3633</b>	<b>8.0304</b>	<b>0.0159</b>	<b>1.1677</b>	<b>0.0234</b>	<b>1.1912</b>	<b>0.3107</b>	<b>0.0215</b>	<b>0.3322</b>			<b>1,408.5298</b>	<b>0.0677</b>		<b>1,409.9507</b>

**3.5 Hotel Construction - 2016**

**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					6.7497	0.0000	6.7497	3.3974	0.0000	3.3974			0.0000			0.0000
Off-Road	0.3897	1.6886	21.3317	0.0320		0.0520	0.0520		0.0520	0.0520			3,357.0832	1.0022		3,378.1300
<b>Total</b>	<b>0.3897</b>	<b>1.6886</b>	<b>21.3317</b>	<b>0.0320</b>	<b>6.7497</b>	<b>0.0520</b>	<b>6.8017</b>	<b>3.3974</b>	<b>0.0520</b>	<b>3.4493</b>			<b>3,357.0832</b>	<b>1.0022</b>		<b>3,378.1300</b>

**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	2.9201	36.5930	36.4568	0.0828	1.9021	0.5925	2.4946	0.5210	0.5449	1.0659			8,407.7290	0.0707		8,409.2133
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
Worker	0.0692	0.0866	1.0745	2.1300e-003	0.1677	1.4800e-003	0.1691	0.0445	1.3500e-003	0.0458			184.8048	9.9400e-003		185.0135
<b>Total</b>	<b>2.9892</b>	<b>36.6796</b>	<b>37.5313</b>	<b>0.0849</b>	<b>2.0697</b>	<b>0.5940</b>	<b>2.6637</b>	<b>0.5655</b>	<b>0.5462</b>	<b>1.1117</b>			<b>8,592.5337</b>	<b>0.0806</b>		<b>8,594.2268</b>

**3.6 Residential Grading - 2015**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2142	0.9280	11.6892	0.0191		0.0286	0.0286		0.0286	0.0286			1,914.6269	0.4718		1,924.5347
<b>Total</b>	<b>0.2142</b>	<b>0.9280</b>	<b>11.6892</b>	<b>0.0191</b>		<b>0.0286</b>	<b>0.0286</b>		<b>0.0286</b>	<b>0.0286</b>			<b>1,914.6269</b>	<b>0.4718</b>		<b>1,924.5347</b>

**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
Vendor	0.0668	0.6948	0.7980	1.7400e-003	0.0500	0.0113	0.0613	0.0142	0.0104	0.0246			174.5584	1.2500e-003		174.5847
Worker	0.4163	0.5207	6.4863	0.0142	1.1178	9.3400e-003	1.1271	0.2964	8.5900e-003	0.3050			1,189.5826	0.0610		1,190.8632
<b>Total</b>	<b>0.4831</b>	<b>1.2154</b>	<b>7.2843</b>	<b>0.0159</b>	<b>1.1678</b>	<b>0.0206</b>	<b>1.1884</b>	<b>0.3107</b>	<b>0.0190</b>	<b>0.3296</b>			<b>1,364.1409</b>	<b>0.0622</b>		<b>1,365.4479</b>

### 3.7 Retail Construction - 2015

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3758	2.4427	20.4533	0.0325		0.0472	0.0472		0.0472	0.0472			3,207.3703	0.7302		3,222.7049
<b>Total</b>	<b>0.3758</b>	<b>2.4427</b>	<b>20.4533</b>	<b>0.0325</b>		<b>0.0472</b>	<b>0.0472</b>		<b>0.0472</b>	<b>0.0472</b>			<b>3,207.3703</b>	<b>0.7302</b>		<b>3,222.7049</b>

#### 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
Vendor	0.0756	0.7861	0.8672	1.7400e-003	0.0500	0.0136	0.0636	0.0142	0.0125	0.0267			176.4981	1.3900e-003		176.5272
Worker	0.3920	0.4906	6.0887	0.0120	0.9501	8.3600e-003	0.9585	0.2520	7.6600e-003	0.2596			1,047.2270	0.0563		1,048.4100
<b>Total</b>	<b>0.4676</b>	<b>1.2767</b>	<b>6.9559</b>	<b>0.0138</b>	<b>1.0001</b>	<b>0.0220</b>	<b>1.0220</b>	<b>0.2662</b>	<b>0.0202</b>	<b>0.2864</b>			<b>1,223.7251</b>	<b>0.0577</b>		<b>1,224.9372</b>

### 3.7 Retail Construction - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3758	2.4427	20.4533	0.0325		0.0472	0.0472		0.0472	0.0472			3,187.0787	0.7125		3,202.0412
<b>Total</b>	<b>0.3758</b>	<b>2.4427</b>	<b>20.4533</b>	<b>0.0325</b>		<b>0.0472</b>	<b>0.0472</b>		<b>0.0472</b>	<b>0.0472</b>			<b>3,187.0787</b>	<b>0.7125</b>		<b>3,202.0412</b>

#### 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
Vendor	0.0668	0.6948	0.7980	1.7400e-003	0.0500	0.0113	0.0613	0.0142	0.0104	0.0246			174.5584	1.2500e-003		174.5847
Worker	0.3539	0.4426	5.5134	0.0120	0.9501	7.9400e-003	0.9580	0.2520	7.3000e-003	0.2593			1,011.1452	0.0518		1,012.2337
<b>Total</b>	<b>0.4207</b>	<b>1.1373</b>	<b>6.3114</b>	<b>0.0138</b>	<b>1.0001</b>	<b>0.0192</b>	<b>1.0193</b>	<b>0.2662</b>	<b>0.0177</b>	<b>0.2839</b>			<b>1,185.7035</b>	<b>0.0531</b>		<b>1,186.8184</b>

### 3.8 Residential Parking - 2015

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3758	2.4427	20.4533	0.0325		0.0472	0.0472		0.0472	0.0472			3,207.3703	0.7302		3,222.7049
<b>Total</b>	<b>0.3758</b>	<b>2.4427</b>	<b>20.4533</b>	<b>0.0325</b>		<b>0.0472</b>	<b>0.0472</b>		<b>0.0472</b>	<b>0.0472</b>			<b>3,207.3703</b>	<b>0.7302</b>		<b>3,222.7049</b>

**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
Vendor	0.0756	0.7861	0.8672	1.7400e-003	0.0500	0.0136	0.0636	0.0142	0.0125	0.0267			176.4981	1.3900e-003		176.5272
Worker	0.6918	0.8657	10.7447	0.0213	1.6767	0.0148	1.6914	0.4447	0.0135	0.4582			1,848.0476	0.0994		1,850.1352
<b>Total</b>	<b>0.7674</b>	<b>1.6519</b>	<b>11.6120</b>	<b>0.0230</b>	<b>1.7266</b>	<b>0.0283</b>	<b>1.7550</b>	<b>0.4589</b>	<b>0.0260</b>	<b>0.4849</b>			<b>2,024.5457</b>	<b>0.1008</b>		<b>2,026.6625</b>

**3.8 Residential Parking - 2016**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3758	2.4427	20.4533	0.0325		0.0472	0.0472		0.0472	0.0472			3,187.0787	0.7125		3,202.0412
<b>Total</b>	<b>0.3758</b>	<b>2.4427</b>	<b>20.4533</b>	<b>0.0325</b>		<b>0.0472</b>	<b>0.0472</b>		<b>0.0472</b>	<b>0.0472</b>			<b>3,187.0787</b>	<b>0.7125</b>		<b>3,202.0412</b>

**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
Vendor	0.0668	0.6948	0.7980	1.7400e-003	0.0500	0.0113	0.0613	0.0142	0.0104	0.0246			174.5584	1.2500e-003		174.5847
Worker	0.6245	0.7810	9.7295	0.0212	1.6767	0.0140	1.6907	0.4447	0.0129	0.4575			1,784.3739	0.0915		1,786.2948
<b>Total</b>	<b>0.6913</b>	<b>1.4757</b>	<b>10.5275</b>	<b>0.0230</b>	<b>1.7267</b>	<b>0.0253</b>	<b>1.7519</b>	<b>0.4589</b>	<b>0.0233</b>	<b>0.4822</b>			<b>1,958.9322</b>	<b>0.0927</b>		<b>1,960.8795</b>

**3.9 Hotel Coatings - 2016**

**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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003			281.4481	0.0332		282.1449
<b>Total</b>	<b>0.0297</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>			<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</b>

**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
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
Worker	0.0833	0.1041	1.2973	2.8300e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610			237.9165	0.0122		238.1726
<b>Total</b>	<b>0.0833</b>	<b>0.1041</b>	<b>1.2973</b>	<b>2.8300e-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>237.9165</b>	<b>0.0122</b>		<b>238.1726</b>

### 3.10 On-Site Paving - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1752	0.7593	10.8059	0.0150		0.0234	0.0234		0.0234	0.0234			1,532.3821	0.4522		1,541.8788
Paving	0.4454					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6206</b>	<b>0.7593</b>	<b>10.8059</b>	<b>0.0150</b>		<b>0.0234</b>	<b>0.0234</b>		<b>0.0234</b>	<b>0.0234</b>			<b>1,532.3821</b>	<b>0.4522</b>		<b>1,541.8788</b>

#### 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
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
Worker	0.0541	0.0677	0.8432	1.8400e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397			154.6457	7.9300e-003		154.8122
<b>Total</b>	<b>0.0541</b>	<b>0.0677</b>	<b>0.8432</b>	<b>1.8400e-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>154.6457</b>	<b>7.9300e-003</b>		<b>154.8122</b>

### 3.11 Flair Drive Paving - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1257	0.5447	7.7519	0.0131		0.0168	0.0168		0.0168	0.0168			1,267.2474	0.3423		1,274.4351
Paving	1.6034					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.7292</b>	<b>0.5447</b>	<b>7.7519</b>	<b>0.0131</b>		<b>0.0168</b>	<b>0.0168</b>		<b>0.0168</b>	<b>0.0168</b>			<b>1,267.2474</b>	<b>0.3423</b>		<b>1,274.4351</b>

#### 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
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
Worker	0.0749	0.0937	1.1675	2.5500e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549			214.1249	0.0110		214.3554
<b>Total</b>	<b>0.0749</b>	<b>0.0937</b>	<b>1.1675</b>	<b>2.5500e-003</b>	<b>0.2012</b>	<b>1.6800e-003</b>	<b>0.2029</b>	<b>0.0534</b>	<b>1.5500e-003</b>	<b>0.0549</b>			<b>214.1249</b>	<b>0.0110</b>		<b>214.3554</b>

### 3.12 Rio Hondo Paving - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1257	0.5447	7.7519	0.0131		0.0168	0.0168		0.0168	0.0168			1,267.2474	0.3423		1,274.4351
Paving	1.6034					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.7292</b>	<b>0.5447</b>	<b>7.7519</b>	<b>0.0131</b>		<b>0.0168</b>	<b>0.0168</b>		<b>0.0168</b>	<b>0.0168</b>			<b>1,267.2474</b>	<b>0.3423</b>		<b>1,274.4351</b>

#### 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
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
Worker	0.0749	0.0937	1.1675	2.5500e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549			214.1249	0.0110		214.3554
<b>Total</b>	<b>0.0749</b>	<b>0.0937</b>	<b>1.1675</b>	<b>2.5500e-003</b>	<b>0.2012</b>	<b>1.6800e-003</b>	<b>0.2029</b>	<b>0.0534</b>	<b>1.5500e-003</b>	<b>0.0549</b>			<b>214.1249</b>	<b>0.0110</b>		<b>214.3554</b>

### 3.13 Retail Coatings - 2016

#### 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003			281.4481	0.0332		282.1449
<b>Total</b>	<b>0.0297</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>			<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</b>

#### 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
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
Worker	0.0708	0.0885	1.1027	2.4100e-003	0.1900	1.5900e-003	0.1916	0.0504	1.4600e-003	0.0519			202.2290	0.0104		202.4467
<b>Total</b>	<b>0.0708</b>	<b>0.0885</b>	<b>1.1027</b>	<b>2.4100e-003</b>	<b>0.1900</b>	<b>1.5900e-003</b>	<b>0.1916</b>	<b>0.0504</b>	<b>1.4600e-003</b>	<b>0.0519</b>			<b>202.2290</b>	<b>0.0104</b>		<b>202.4467</b>

## Flair Spectrum Phase I Construction South Coast Air Basin, Winter

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	289.67	1000sqft	0.00	289,670.00	0
Enclosed Parking with Elevator	75.51	1000sqft	0.00	75,513.00	0
Other Asphalt Surfaces	1.87	Acre	1.87	0.00	0
Other Asphalt Surfaces	0.50	Acre	0.50	0.00	0
Other Asphalt Surfaces	0.69	Acre	0.69	0.00	0
Other Non-Asphalt Surfaces	1.56	Acre	1.56	0.00	0
Hotel	250.00	Room	0.62	240,000.00	0
Quality Restaurant	50.00	1000sqft	0.00	50,000.00	0
Regional Shopping Center	640.00	1000sqft	7.20	640,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9			<b>Operational Year</b>	2017
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	630.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

- Project Characteristics -
- Land Use - Revise Default Areas to Match Project
- Construction Phase - Adjust Schedule to Match Project
- Off-road Equipment -
- Off-road Equipment - Adjust to 0.5 Acres of Paving
- Off-road Equipment - Phase Reflects 0.62 Acre Site Area
- Off-road Equipment - Adjust Equipment to 0.62 Acres Site Area
- Off-road Equipment - Adjust Equipment to Include 0.62 Site Area and Use of Excavator
- Off-road Equipment - Adjust to 1.87 Acres of Paving
- Off-road Equipment - Adjust to 2.47 Acres Site Area and Use of Excavator
- Off-road Equipment - Add Pump and Cement Mixer for Parking Structure
- Off-road Equipment -
- Off-road Equipment - Add Pump and Cement Mixer for Parking Structure
- Off-road Equipment - Adjust to 7.20 Acres of Site Area
- Off-road Equipment - Adjust to 0.69 Acres of Paving
- Trips and VMT - Vendor Trips Estimated at 8 Per Day Per Contractor Estimates
- Peak Hotel Construction Workers at 100 Per Contractor Estimate
- Peak Retail Construction Workers at 85 Per Contractor Estimates
- Peak Retail Construction Workers at 150 Per Contractor Estimates
- Grading -
- Architectural Coating - Coating Area Adjusted to Building Sizes
- Vehicle Emission Factors -
- Vehicle Emission Factors -
- Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - Evaluate Tier IV COstruction Equipment

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	647,592.00	345,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	647,592.00	120,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,942,775.00	1,035,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,942,775.00	480,000.00
tblAreaCoating	Area_Nonresidential_Interior	1942775	1319730
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	18.00
tblConstructionPhase	NumDays	300.00	230.00
tblConstructionPhase	NumDays	30.00	35.00
tblConstructionPhase	NumDays	30.00	73.00
tblConstructionPhase	NumDays	30.00	27.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	20.00	18.00
tblConstructionPhase	PhaseEndDate	4/20/2016	9/5/2016
tblConstructionPhase	PhaseEndDate	10/10/2016	2/12/2016
tblConstructionPhase	PhaseEndDate	5/2/2016	1/20/2016
tblConstructionPhase	PhaseEndDate	9/14/2016	8/8/2016
tblConstructionPhase	PhaseEndDate	10/2/2017	9/14/2016
tblConstructionPhase	PhaseEndDate	2/26/2016	7/22/2015
tblConstructionPhase	PhaseStartDate	3/24/2016	8/9/2016
tblConstructionPhase	PhaseStartDate	9/15/2016	1/20/2016
tblConstructionPhase	PhaseStartDate	6/16/2015	3/5/2015
tblConstructionPhase	PhaseStartDate	7/23/2015	6/16/2015
tblConstructionPhase	PhaseStartDate	8/9/2016	7/23/2015
tblConstructionPhase	PhaseStartDate	1/21/2016	6/16/2015
tblGrading	MaterialExported	0.00	61,054.00
tblGrading	MaterialExported	0.00	79,016.00
tblGrading	MaterialExported	0.00	47,118.00
tblLandUse	LandUseSquareFeet	75,510.00	75,513.00
tblLandUse	LandUseSquareFeet	21,780.00	0.00
tblLandUse	LandUseSquareFeet	30,056.40	0.00
tblLandUse	LandUseSquareFeet	81,457.20	0.00

tblLandUse	LandUseSquareFeet	67,953.60	0.00
tblLandUse	LandUseSquareFeet	363,000.00	240,000.00
tblLandUse	LotAcreage	6.65	0.00
tblLandUse	LotAcreage	1.73	0.00
tblLandUse	LotAcreage	8.33	0.62
tblLandUse	LotAcreage	1.15	0.00
tblLandUse	LotAcreage	14.69	7.20
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblSolidWaste	SolidWasteGenerationRate	45.63	51.50
tblSolidWaste	SolidWasteGenerationRate	672.00	624.01
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblTripsAndVMT	VendorTripNumber	212.00	8.00
tblTripsAndVMT	VendorTripNumber	212.00	8.00
tblTripsAndVMT	VendorTripNumber	212.00	8.00
tblTripsAndVMT	WorkerTripNumber	96.00	17.00
tblTripsAndVMT	WorkerTripNumber	480.00	100.00
tblTripsAndVMT	WorkerTripNumber	480.00	85.00
tblTripsAndVMT	WorkerTripNumber	480.00	150.00
tblTripsAndVMT	WorkerTripNumber	96.00	20.00
tblWater	IndoorWaterUseRate	15,176,685.62	17,131,442.73
tblWater	IndoorWaterUseRate	47,406,413.75	44,021,299.52
tblWater	OutdoorWaterUseRate	968,724.61	1,093,496.34
tblWater	OutdoorWaterUseRate	29,055,543.91	26,980,796.48

## 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					
2015	14.8270	139.1088	120.3583	0.1960	18.2675	6.8595	21.3575	9.9840	6.4037	12.8269			19,524.5929	2.4171	0.0000	19,575.3527
2016	804.6566	92.7736	81.9747	0.1393	4.1181	6.1490	10.2670	1.0951	5.8174	6.9124			13,050.2369	2.1503	0.0000	13,095.3939
<b>Total</b>	<b>819.4836</b>	<b>231.8824</b>	<b>202.3330</b>	<b>0.3353</b>	<b>22.3855</b>	<b>13.0084</b>	<b>31.6245</b>	<b>11.0791</b>	<b>12.2211</b>	<b>19.7393</b>			<b>32,574.8297</b>	<b>4.5675</b>	<b>0.0000</b>	<b>32,670.7465</b>

### 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	31.9034	1.2900e-003	0.1363	1.0000e-005	4.9000e-004	4.9000e-004	4.9000e-004	4.9000e-004	4.9000e-004	4.9000e-004			0.2867	8.0000e-004		0.3034
Energy	0.5538	5.0345	4.2290	0.0302		0.3826	0.3826		0.3826	0.3826			6,041.3538	0.1158	0.1108	6,078.1204
Mobile	122.9874	277.3480	1,138.9298	2.4683	171.2834	3.6962	174.9796	45.7648	3.4020	49.1668			210,327.7725	8.6368		210,509.1443
<b>Total</b>	<b>155.4445</b>	<b>282.3837</b>	<b>1,143.2950</b>	<b>2.4985</b>	<b>171.2834</b>	<b>4.0793</b>	<b>175.3627</b>	<b>45.7648</b>	<b>3.7851</b>	<b>49.5499</b>			<b>216,369.4129</b>	<b>8.7533</b>	<b>0.1108</b>	<b>216,587.5681</b>

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Clearing and Grubbing	Site Preparation	1/1/2015	1/14/2015	5	10	
2	Hotel Grading	Grading	1/15/2015	3/4/2015	5	35	
3	Retail Grading	Grading	3/5/2015	6/15/2015	5	73	
4	Hotel Construction	Building Construction	3/5/2015	1/20/2016	5	230	
5	Residential Grading	Grading	6/16/2015	7/22/2015	5	27	
6	Retail Construction	Building Construction	6/16/2015	8/8/2016	5	300	
7	Residential Parking	Building Construction	7/23/2015	9/14/2016	5	300	1 Basement + 5 Floors
8	Hotel Coatings	Architectural Coating	1/20/2016	2/12/2016	5	18	
9	On-Site Paving	Paving	2/13/2016	3/9/2016	5	18	
10	Flair Drive Paving	Paving	3/10/2016	3/16/2016	5	5	
11	Rio Hondo Paving	Paving	3/17/2016	3/23/2016	5	5	
12	Retail Coatings	Architectural Coating	8/9/2016	9/5/2016	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 480,000; Non-Residential Outdoor: 120,000 (Architectural Coating –

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Clearing and Grubbing	Rubber Tired Dozers	3	8.00	255	0.40
Clearing and Grubbing	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Hotel Grading	Excavators	1	8.00	162	0.38
Hotel Grading	Graders	1	8.00	174	0.41
Hotel Grading	Rubber Tired Dozers	1	8.00	255	0.40

Hotel Grading	Scrapers	0	8.00	361	0.48
Hotel Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Retail Grading	Excavators	1	8.00	162	0.38
Retail Grading	Graders	1	8.00	174	0.41
Retail Grading	Rubber Tired Dozers	1	8.00	255	0.40
Retail Grading	Scrapers	0	8.00	361	0.48
Retail Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Hotel Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Hotel Construction	Cranes	1	7.00	226	0.29
Hotel Construction	Forklifts	2	8.00	89	0.20
Hotel Construction	Generator Sets	0	8.00	84	0.74
Hotel Construction	Pumps	1	6.00	84	0.74
Hotel Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Hotel Construction	Welders	0	8.00	46	0.45
Residential Grading	Excavators	2	8.00	162	0.38
Residential Grading	Graders	1	8.00	174	0.41
Residential Grading	Rubber Tired Dozers	1	8.00	255	0.40
Residential Grading	Scrapers	0	8.00	361	0.48
Residential Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Retail Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Retail Construction	Cranes	1	7.00	226	0.29
Retail Construction	Forklifts	3	8.00	89	0.20
Retail Construction	Generator Sets	1	8.00	84	0.74
Retail Construction	Pumps	1	6.00	84	0.74
Retail Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Retail Construction	Welders	1	8.00	46	0.45
Residential Parking	Cement and Mortar Mixers	1	8.00	9	0.56
Residential Parking	Cranes	1	7.00	226	0.29
Residential Parking	Forklifts	3	8.00	89	0.20
Residential Parking	Generator Sets	1	8.00	84	0.74
Residential Parking	Pumps	1	6.00	84	0.74
Residential Parking	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Residential Parking	Welders	1	8.00	46	0.45
Hotel Coatings	Air Compressors	1	6.00	78	0.48
On-Site Paving	Cement and Mortar Mixers	1	8.00	9	0.56
On-Site Paving	Pavers	1	8.00	125	0.42
On-Site Paving	Paving Equipment	1	8.00	130	0.36
On-Site Paving	Rollers	1	8.00	80	0.38
On-Site Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Flair Drive Paving	Cement and Mortar Mixers	4	8.00	9	0.56
Flair Drive Paving	Pavers	1	8.00	125	0.42
Flair Drive Paving	Paving Equipment	0	8.00	130	0.36
Flair Drive Paving	Rollers	1	8.00	80	0.38
Flair Drive Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Rio Hondo Paving	Cement and Mortar Mixers	4	8.00	9	0.56
Rio Hondo Paving	Pavers	1	8.00	125	0.42
Rio Hondo Paving	Paving Equipment	0	8.00	130	0.36
Rio Hondo Paving	Rollers	1	8.00	80	0.38
Rio Hondo Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Retail Coatings	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Clearing and Grubbing	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Hotel Grading	5	13.00	0.00	7,632.00	14.70	6.90	10.00	LD_Mix	HDT_Mix	HHDT
Retail Grading	6	15.00	0.00	9,877.00	14.70	6.90	10.00	LD_Mix	HDT_Mix	HHDT
Hotel Construction	7	100.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Grading	6	15.00	0.00	5,890.00	14.70	6.90	10.00	LD_Mix	HDT_Mix	HHDT
Retail Construction	11	85.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Parking	11	150.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Hotel Coatings	1	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
On-Site Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flair Drive Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rio Hondo Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Retail Coatings	1	17.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Clean Paved Roads

**3.2 Clearing and Grubbing - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412			4,111.7444	1.2275		4,137.5225
<b>Total</b>	<b>5.2609</b>	<b>56.8897</b>	<b>42.6318</b>	<b>0.0391</b>	<b>18.0663</b>	<b>3.0883</b>	<b>21.1545</b>	<b>9.9307</b>	<b>2.8412</b>	<b>12.7719</b>			<b>4,111.7444</b>	<b>1.2275</b>		<b>4,137.5225</b>

**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
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
Worker	0.0850	0.1141	1.1926	2.3900e-003	0.2012	1.7700e-003	0.2030	0.0534	1.6200e-003	0.0550			208.0159	0.0119		208.2664
<b>Total</b>	<b>0.0850</b>	<b>0.1141</b>	<b>1.1926</b>	<b>2.3900e-003</b>	<b>0.2012</b>	<b>1.7700e-003</b>	<b>0.2030</b>	<b>0.0534</b>	<b>1.6200e-003</b>	<b>0.0550</b>			<b>208.0159</b>	<b>0.0119</b>		<b>208.2664</b>

**3.3 Hotel Grading - 2015**

**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					6.7496	0.0000	6.7496	3.3974	0.0000	3.3974			0.0000			0.0000
Off-Road	3.4723	36.9840	24.2475	0.0267		2.0597	2.0597		1.8949	1.8949			2,801.5281	0.8364		2,819.0920
<b>Total</b>	<b>3.4723</b>	<b>36.9840</b>	<b>24.2475</b>	<b>0.0267</b>	<b>6.7496</b>	<b>2.0597</b>	<b>8.8093</b>	<b>3.3974</b>	<b>1.8949</b>	<b>5.2923</b>			<b>2,801.5281</b>	<b>0.8364</b>		<b>2,819.0920</b>

**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	3.1697	37.7699	42.6602	0.0825	1.9013	0.5963	2.4975	0.5208	0.5484	1.0691			8,365.3699	0.0723		8,366.8875
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
Worker	0.0614	0.0824	0.8613	1.7300e-003	0.1453	1.2800e-003	0.1466	0.0385	1.1700e-003	0.0397			150.2337	8.6200e-003		150.4146
<b>Total</b>	<b>3.2311</b>	<b>37.8523</b>	<b>43.5215</b>	<b>0.0842</b>	<b>2.0466</b>	<b>0.5976</b>	<b>2.6441</b>	<b>0.5593</b>	<b>0.5495</b>	<b>1.1088</b>			<b>8,515.6035</b>	<b>0.0809</b>		<b>8,517.3021</b>

**3.4 Retail Grading - 2015**

**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					6.6748	0.0000	6.6748	3.3860	0.0000	3.3860			0.0000			0.0000
Off-Road	3.8327	40.4161	26.6731	0.0298		2.3284	2.3284		2.1421	2.1421			3,129.0158	0.9341		3,148.6328
<b>Total</b>	<b>3.8327</b>	<b>40.4161</b>	<b>26.6731</b>	<b>0.0298</b>	<b>6.6748</b>	<b>2.3284</b>	<b>9.0031</b>	<b>3.3860</b>	<b>2.1421</b>	<b>5.5281</b>			<b>3,129.0158</b>	<b>0.9341</b>		<b>3,148.6328</b>

**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	1.9668	23.4357	26.4700	0.0512	1.1797	0.3700	1.5497	0.3231	0.3402	0.6634			5,190.5936	0.0448		5,191.5352
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
Worker	0.0709	0.0951	0.9938	1.9900e-003	0.1677	1.4800e-003	0.1691	0.0445	1.3500e-003	0.0458			173.3466	9.9400e-003		173.5553
<b>Total</b>	<b>2.0376</b>	<b>23.5308</b>	<b>27.4639</b>	<b>0.0532</b>	<b>1.3474</b>	<b>0.3715</b>	<b>1.7188</b>	<b>0.3676</b>	<b>0.3416</b>	<b>0.7092</b>			<b>5,363.9401</b>	<b>0.0548</b>		<b>5,365.0905</b>

**3.5 Hotel Construction - 2015**

**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	2.3799	22.2113	12.7104	0.0191		1.4847	1.4847		1.3911	1.3911			1,929.9392	0.4770		1,939.9559
<b>Total</b>	<b>2.3799</b>	<b>22.2113</b>	<b>12.7104</b>	<b>0.0191</b>		<b>1.4847</b>	<b>1.4847</b>		<b>1.3911</b>	<b>1.3911</b>			<b>1,929.9392</b>	<b>0.4770</b>		<b>1,939.9559</b>

**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
Vendor	0.0830	0.8066	1.0286	1.7300e-003	0.0500	0.0138	0.0637	0.0142	0.0127	0.0269			175.0258	1.4300e-003		175.0558
Worker	0.4724	0.6341	6.6254	0.0133	1.1178	9.8400e-003	1.1276	0.2964	9.0200e-003	0.3055			1,155.6437	0.0663		1,157.0355
<b>Total</b>	<b>0.5555</b>	<b>1.4407</b>	<b>7.6540</b>	<b>0.0150</b>	<b>1.1677</b>	<b>0.0236</b>	<b>1.1913</b>	<b>0.3107</b>	<b>0.0217</b>	<b>0.3323</b>			<b>1,330.6695</b>	<b>0.0677</b>		<b>1,332.0913</b>

### 3.5 Hotel Construction - 2016

#### 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	2.2403	21.1192	12.5649	0.0191		1.3861	1.3861		1.2977	1.2977			1,914.6269	0.4718		1,924.5347
<b>Total</b>	<b>2.2403</b>	<b>21.1192</b>	<b>12.5649</b>	<b>0.0191</b>		<b>1.3861</b>	<b>1.3861</b>		<b>1.2977</b>	<b>1.2977</b>			<b>1,914.6269</b>	<b>0.4718</b>		<b>1,924.5347</b>

#### 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
Vendor	0.0733	0.7123	0.9578	1.7300e-003	0.0500	0.0114	0.0614	0.0142	0.0105	0.0247			173.0956	1.2900e-003		173.1226
Worker	0.4256	0.5719	5.9800	0.0133	1.1178	9.3400e-003	1.1271	0.2964	8.5900e-003	0.3050			1,115.6952	0.0610		1,116.9758
<b>Total</b>	<b>0.4988</b>	<b>1.2842</b>	<b>6.9378</b>	<b>0.0150</b>	<b>1.1678</b>	<b>0.0207</b>	<b>1.1885</b>	<b>0.3107</b>	<b>0.0191</b>	<b>0.3298</b>			<b>1,288.7907</b>	<b>0.0623</b>		<b>1,290.0984</b>

### 3.6 Residential Grading - 2015

#### 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					6.7497	0.0000	6.7497	3.3974	0.0000	3.3974			0.0000			0.0000
Off-Road	3.8889	41.8488	27.6867	0.0320		2.2998	2.2998		2.1159	2.1159			3,357.0832	1.0022		3,378.1300
<b>Total</b>	<b>3.8889</b>	<b>41.8488</b>	<b>27.6867</b>	<b>0.0320</b>	<b>6.7497</b>	<b>2.2998</b>	<b>9.0495</b>	<b>3.3974</b>	<b>2.1159</b>	<b>5.5132</b>			<b>3,357.0832</b>	<b>1.0022</b>		<b>3,378.1300</b>

#### 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	3.1711	37.7857	42.6780	0.0825	1.9021	0.5965	2.4986	0.5210	0.5486	1.0696			8,368.8611	0.0723		8,370.3794
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
Worker	0.0709	0.0951	0.9938	1.9900e-003	0.1677	1.4800e-003	0.1691	0.0445	1.3500e-003	0.0458			173.3466	9.9400e-003		173.5553
<b>Total</b>	<b>3.2419</b>	<b>37.8808</b>	<b>43.6718</b>	<b>0.0845</b>	<b>2.0697</b>	<b>0.5980</b>	<b>2.6677</b>	<b>0.5655</b>	<b>0.5499</b>	<b>1.1154</b>			<b>8,542.2077</b>	<b>0.0822</b>		<b>8,543.9347</b>

### 3.7 Retail Construction - 2015

#### 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	4.2763	34.3817	21.9751	0.0325		2.4312	2.4312		2.3049	2.3049			3,207.3703	0.7302		3,222.7049
<b>Total</b>	<b>4.2763</b>	<b>34.3817</b>	<b>21.9751</b>	<b>0.0325</b>		<b>2.4312</b>	<b>2.4312</b>		<b>2.3049</b>	<b>2.3049</b>			<b>3,207.3703</b>	<b>0.7302</b>		<b>3,222.7049</b>

**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
Vendor	0.0830	0.8066	1.0286	1.7300e-003	0.0500	0.0138	0.0637	0.0142	0.0127	0.0269			175.0258	1.4300e-003		175.0558
Worker	0.4016	0.5390	5.6316	0.0113	0.9501	8.3600e-003	0.9585	0.2520	7.6600e-003	0.2596			982.2971	0.0563		983.4802
<b>Total</b>	<b>0.4846</b>	<b>1.3456</b>	<b>6.6602</b>	<b>0.0130</b>	<b>1.0001</b>	<b>0.0221</b>	<b>1.0222</b>	<b>0.2662</b>	<b>0.0203</b>	<b>0.2865</b>			<b>1,157.3230</b>	<b>0.0578</b>		<b>1,158.5359</b>

**3.7 Retail Construction - 2016**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.9666	32.5575	21.7117	0.0325		2.2495	2.2495		2.1305	2.1305			3,187.0787	0.7125		3,202.0412
<b>Total</b>	<b>3.9666</b>	<b>32.5575</b>	<b>21.7117</b>	<b>0.0325</b>		<b>2.2495</b>	<b>2.2495</b>		<b>2.1305</b>	<b>2.1305</b>			<b>3,187.0787</b>	<b>0.7125</b>		<b>3,202.0412</b>

**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
Vendor	0.0733	0.7123	0.9578	1.7300e-003	0.0500	0.0114	0.0614	0.0142	0.0105	0.0247			173.0956	1.2900e-003		173.1226
Worker	0.3618	0.4861	5.0830	0.0113	0.9501	7.9400e-003	0.9580	0.2520	7.3000e-003	0.2593			948.3409	0.0518		949.4294
<b>Total</b>	<b>0.4350</b>	<b>1.1984</b>	<b>6.0408</b>	<b>0.0130</b>	<b>1.0001</b>	<b>0.0193</b>	<b>1.0194</b>	<b>0.2662</b>	<b>0.0178</b>	<b>0.2840</b>			<b>1,121.4364</b>	<b>0.0531</b>		<b>1,122.5521</b>

**3.8 Residential Parking - 2015**

**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	4.2763	34.3817	21.9751	0.0325		2.4312	2.4312		2.3049	2.3049			3,207.3703	0.7302		3,222.7049
<b>Total</b>	<b>4.2763</b>	<b>34.3817</b>	<b>21.9751</b>	<b>0.0325</b>		<b>2.4312</b>	<b>2.4312</b>		<b>2.3049</b>	<b>2.3049</b>			<b>3,207.3703</b>	<b>0.7302</b>		<b>3,222.7049</b>

**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
Vendor	0.0830	0.8066	1.0286	1.7300e-003	0.0500	0.0138	0.0637	0.0142	0.0127	0.0269			175.0258	1.4300e-003		175.0558
Worker	0.7086	0.9512	9.9382	0.0199	1.6767	0.0148	1.6914	0.4447	0.0135	0.4582			1,733.4655	0.0994		1,735.5532
<b>Total</b>	<b>0.7917</b>	<b>1.7578</b>	<b>10.9667</b>	<b>0.0217</b>	<b>1.7266</b>	<b>0.0285</b>	<b>1.7551</b>	<b>0.4589</b>	<b>0.0262</b>	<b>0.4851</b>			<b>1,908.4914</b>	<b>0.1008</b>		<b>1,910.6090</b>

### 3.8 Residential Parking - 2016

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.9666	32.5575	21.7117	0.0325		2.2495	2.2495		2.1305	2.1305			3,187.0787	0.7125		3,202.0412
<b>Total</b>	<b>3.9666</b>	<b>32.5575</b>	<b>21.7117</b>	<b>0.0325</b>		<b>2.2495</b>	<b>2.2495</b>		<b>2.1305</b>	<b>2.1305</b>			<b>3,187.0787</b>	<b>0.7125</b>		<b>3,202.0412</b>

#### 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
Vendor	0.0733	0.7123	0.9578	1.7300e-003	0.0500	0.0114	0.0614	0.0142	0.0105	0.0247			173.0956	1.2900e-003		173.1226
Worker	0.6384	0.8579	8.9700	0.0199	1.6767	0.0140	1.6907	0.4447	0.0129	0.4575			1,673.5427	0.0915		1,675.4637
<b>Total</b>	<b>0.7116</b>	<b>1.5702</b>	<b>9.9278</b>	<b>0.0216</b>	<b>1.7267</b>	<b>0.0254</b>	<b>1.7521</b>	<b>0.4589</b>	<b>0.0234</b>	<b>0.4823</b>			<b>1,846.6383</b>	<b>0.0928</b>		<b>1,848.5863</b>

### 3.9 Hotel Coatings - 2016

#### 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	386.2500					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966			281.4481	0.0332		282.1449
<b>Total</b>	<b>386.6185</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>			<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</b>

#### 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
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
Worker	0.0851	0.1144	1.1960	2.6500e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610			223.1390	0.0122		223.3952
<b>Total</b>	<b>0.0851</b>	<b>0.1144</b>	<b>1.1960</b>	<b>2.6500e-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>223.1390</b>	<b>0.0122</b>		<b>223.3952</b>

### 3.10 On-Site Paving - 2016

#### 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	1.4443	14.8172	10.1298	0.0150		0.8960	0.8960		0.8255	0.8255			1,532.3821	0.4522		1,541.8788
Paving	0.4454					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.8897</b>	<b>14.8172</b>	<b>10.1298</b>	<b>0.0150</b>		<b>0.8960</b>	<b>0.8960</b>		<b>0.8255</b>	<b>0.8255</b>			<b>1,532.3821</b>	<b>0.4522</b>		<b>1,541.8788</b>

**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
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
Worker	0.0553	0.0744	0.7774	1.7300e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397			145.0404	7.9300e-003		145.2069
<b>Total</b>	<b>0.0553</b>	<b>0.0744</b>	<b>0.7774</b>	<b>1.7300e-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>145.0404</b>	<b>7.9300e-003</b>		<b>145.2069</b>

**3.11 Flair Drive Paving - 2016**

**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	1.3139	12.3575	8.5117	0.0131		0.7635	0.7635		0.7071	0.7071			1,267.2474	0.3423		1,274.4351
Paving	1.6034					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.9174</b>	<b>12.3575</b>	<b>8.5117</b>	<b>0.0131</b>		<b>0.7635</b>	<b>0.7635</b>		<b>0.7071</b>	<b>0.7071</b>			<b>1,267.2474</b>	<b>0.3423</b>		<b>1,274.4351</b>

**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
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
Worker	0.0766	0.1029	1.0764	2.3900e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549			200.8251	0.0110		201.0556
<b>Total</b>	<b>0.0766</b>	<b>0.1029</b>	<b>1.0764</b>	<b>2.3900e-003</b>	<b>0.2012</b>	<b>1.6800e-003</b>	<b>0.2029</b>	<b>0.0534</b>	<b>1.5500e-003</b>	<b>0.0549</b>			<b>200.8251</b>	<b>0.0110</b>		<b>201.0556</b>

**3.12 Rio Hondo Paving - 2016**

**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	1.3139	12.3575	8.5117	0.0131		0.7635	0.7635		0.7071	0.7071			1,267.2474	0.3423		1,274.4351
Paving	1.6034					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.9174</b>	<b>12.3575</b>	<b>8.5117</b>	<b>0.0131</b>		<b>0.7635</b>	<b>0.7635</b>		<b>0.7071</b>	<b>0.7071</b>			<b>1,267.2474</b>	<b>0.3423</b>		<b>1,274.4351</b>

**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
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
Worker	0.0766	0.1029	1.0764	2.3900e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549			200.8251	0.0110		201.0556
<b>Total</b>	<b>0.0766</b>	<b>0.1029</b>	<b>1.0764</b>	<b>2.3900e-003</b>	<b>0.2012</b>	<b>1.6800e-003</b>	<b>0.2029</b>	<b>0.0534</b>	<b>1.5500e-003</b>	<b>0.0549</b>			<b>200.8251</b>	<b>0.0110</b>		<b>201.0556</b>

### 3.13 Retail Coatings - 2016

#### 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	799.5375					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966			281.4481	0.0332		282.1449
<b>Total</b>	<b>799.9060</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>			<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</b>

#### 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
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
Worker	0.0724	0.0972	1.0166	2.2600e-003	0.1900	1.5900e-003	0.1916	0.0504	1.4600e-003	0.0519			189.6682	0.0104		189.8859
<b>Total</b>	<b>0.0724</b>	<b>0.0972</b>	<b>1.0166</b>	<b>2.2600e-003</b>	<b>0.1900</b>	<b>1.5900e-003</b>	<b>0.1916</b>	<b>0.0504</b>	<b>1.4600e-003</b>	<b>0.0519</b>			<b>189.6682</b>	<b>0.0104</b>		<b>189.8859</b>

## Flair Spectrum Phase I Construction South Coast Air Basin, Winter

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	289.67	1000sqft	0.00	289,670.00	0
Enclosed Parking with Elevator	75.51	1000sqft	0.00	75,513.00	0
Other Asphalt Surfaces	1.87	Acre	1.87	0.00	0
Other Asphalt Surfaces	0.50	Acre	0.50	0.00	0
Other Asphalt Surfaces	0.69	Acre	0.69	0.00	0
Other Non-Asphalt Surfaces	1.56	Acre	1.56	0.00	0
Hotel	250.00	Room	0.62	240,000.00	0
Quality Restaurant	50.00	1000sqft	0.00	50,000.00	0
Regional Shopping Center	640.00	1000sqft	7.20	640,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9			<b>Operational Year</b>	2017
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	630.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

- Project Characteristics -
- Land Use - Revise Default Areas to Match Project
- Construction Phase - Adjust Schedule to Match Project
- Off-road Equipment -
- Off-road Equipment - Adjust to 0.5 Acres of Paving
- Off-road Equipment - Phase Reflects 0.62 Acre Site Area
- Off-road Equipment - Adjust Equipment to 0.62 Acres Site Area
- Off-road Equipment - Adjust Equipment to Include 0.62 Site Area and Use of Excavator
- Off-road Equipment - Adjust to 1.87 Acres of Paving
- Off-road Equipment - Adjust to 2.47 Acres Site Area and Use of Excavator
- Off-road Equipment - Add Pump and Cement Mixer for Parking Structure
- Off-road Equipment -
- Off-road Equipment - Add Pump and Cement Mixer for Parking Structure
- Off-road Equipment - Adjust to 7.20 Acres of Site Area
- Off-road Equipment - Adjust to 0.69 Acres of Paving
- Trips and VMT - Vendor Trips Estimated at 8 Per Day Per Contractor Estimates
- Peak Hotel Construction Workers at 100 Per Contractor Estimate
- Grading -
- Architectural Coating - Coating Area Adjusted to Building Sizes
- Vehicle Emission Factors -
- Vehicle Emission Factors -
- Vehicle Emission Factors -
- Construction Off-road Equipment Mitigation - Evaluate Tier IV CONstruction Equipment



tblConstructionPhase	PhaseStartDate	9/15/2016	1/20/2016
tblConstructionPhase	PhaseStartDate	6/16/2015	3/5/2015
tblConstructionPhase	PhaseStartDate	7/23/2015	6/16/2015
tblConstructionPhase	PhaseStartDate	8/9/2016	7/23/2015
tblConstructionPhase	PhaseStartDate	1/21/2016	6/16/2015
tblGrading	MaterialExported	0.00	61,054.00
tblGrading	MaterialExported	0.00	79,016.00
tblGrading	MaterialExported	0.00	47,118.00
tblLandUse	LandUseSquareFeet	75,510.00	75,513.00
tblLandUse	LandUseSquareFeet	21,780.00	0.00
tblLandUse	LandUseSquareFeet	30,056.40	0.00
tblLandUse	LandUseSquareFeet	81,457.20	0.00
tblLandUse	LandUseSquareFeet	67,953.60	0.00
tblLandUse	LandUseSquareFeet	363,000.00	240,000.00
tblLandUse	LotAcreage	6.65	0.00
tblLandUse	LotAcreage	1.73	0.00
tblLandUse	LotAcreage	8.33	0.62
tblLandUse	LotAcreage	1.15	0.00
tblLandUse	LotAcreage	14.69	7.20
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblSolidWaste	SolidWasteGenerationRate	45.63	51.50
tblSolidWaste	SolidWasteGenerationRate	672.00	624.01
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblTripsAndVMT	VendorTripNumber	212.00	8.00
tblTripsAndVMT	VendorTripNumber	212.00	8.00
tblTripsAndVMT	VendorTripNumber	212.00	8.00
tblTripsAndVMT	WorkerTripNumber	96.00	17.00
tblTripsAndVMT	WorkerTripNumber	480.00	100.00
tblTripsAndVMT	WorkerTripNumber	480.00	85.00

tblTripsAndVMT	WorkerTripNumber	480.00	150.00
tblTripsAndVMT	WorkerTripNumber	96.00	20.00
tblWater	IndoorWaterUseRate	15,176,685.62	17,131,442.73
tblWater	IndoorWaterUseRate	47,406,413.75	44,021,299.52
tblWater	OutdoorWaterUseRate	968,724.61	1,093,496.34
tblWater	OutdoorWaterUseRate	29,055,543.91	26,980,796.48

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### 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					
2015	5.2616	45.7263	111.4602	0.1960	18.2675	0.7714	18.3327	9.9840	0.7196	10.0491			19,524.5929	2.4171	0.0000	19,575.3527
2016	800.7270	10.1093	78.5306	0.1393	4.1181	0.1943	4.3123	1.0951	0.1888	1.2839			13,050.2368	2.1503	0.0000	13,095.3939
<b>Total</b>	<b>805.9887</b>	<b>55.8356</b>	<b>189.9908</b>	<b>0.3353</b>	<b>22.3855</b>	<b>0.9657</b>	<b>22.6450</b>	<b>11.0791</b>	<b>0.9084</b>	<b>11.3330</b>			<b>32,574.8297</b>	<b>4.5675</b>	<b>0.0000</b>	<b>32,670.7465</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
<b>Percent Reduction</b>	<b>1.65</b>	<b>75.92</b>	<b>6.10</b>	<b>0.00</b>	<b>0.00</b>	<b>92.58</b>	<b>28.39</b>	<b>0.00</b>	<b>92.57</b>	<b>42.59</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

## 3.0 Construction Detail

### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Clearing and Grubbing	Site Preparation	1/1/2015	1/14/2015	5	10	
2	Hotel Grading	Grading	1/15/2015	3/4/2015	5	35	
3	Retail Grading	Grading	3/5/2015	6/15/2015	5	73	
4	Hotel Construction	Building Construction	3/5/2015	1/20/2016	5	230	
5	Residential Grading	Grading	6/16/2015	7/22/2015	5	27	
6	Retail Construction	Building Construction	6/16/2015	8/8/2016	5	300	
7	Residential Parking	Building Construction	7/23/2015	9/14/2016	5	300	1 Basement + 5 Floors
8	Hotel Coatings	Architectural Coating	1/20/2016	2/12/2016	5	18	
9	On-Site Paving	Paving	2/13/2016	3/9/2016	5	18	
10	Flair Drive Paving	Paving	3/10/2016	3/16/2016	5	5	
11	Rio Hondo Paving	Paving	3/17/2016	3/23/2016	5	5	
12	Retail Coatings	Architectural Coating	8/9/2016	9/5/2016	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 480,000; Non-Residential Outdoor: 120,000 (Architectural Coating –

### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Clearing and Grubbing	Rubber Tired Dozers	3	8.00	255	0.40
Clearing and Grubbing	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Hotel Grading	Excavators	1	8.00	162	0.38
Hotel Grading	Graders	1	8.00	174	0.41
Hotel Grading	Rubber Tired Dozers	1	8.00	255	0.40

Hotel Grading	Scrapers	0	8.00	361	0.48
Hotel Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Retail Grading	Excavators	1	8.00	162	0.38
Retail Grading	Graders	1	8.00	174	0.41
Retail Grading	Rubber Tired Dozers	1	8.00	255	0.40
Retail Grading	Scrapers	0	8.00	361	0.48
Retail Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Hotel Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Hotel Construction	Cranes	1	7.00	226	0.29
Hotel Construction	Forklifts	2	8.00	89	0.20
Hotel Construction	Generator Sets	0	8.00	84	0.74
Hotel Construction	Pumps	1	6.00	84	0.74
Hotel Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Hotel Construction	Welders	0	8.00	46	0.45
Residential Grading	Excavators	2	8.00	162	0.38
Residential Grading	Graders	1	8.00	174	0.41
Residential Grading	Rubber Tired Dozers	1	8.00	255	0.40
Residential Grading	Scrapers	0	8.00	361	0.48
Residential Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Retail Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Retail Construction	Cranes	1	7.00	226	0.29
Retail Construction	Forklifts	3	8.00	89	0.20
Retail Construction	Generator Sets	1	8.00	84	0.74
Retail Construction	Pumps	1	6.00	84	0.74
Retail Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Retail Construction	Welders	1	8.00	46	0.45
Residential Parking	Cement and Mortar Mixers	1	8.00	9	0.56
Residential Parking	Cranes	1	7.00	226	0.29
Residential Parking	Forklifts	3	8.00	89	0.20
Residential Parking	Generator Sets	1	8.00	84	0.74
Residential Parking	Pumps	1	6.00	84	0.74
Residential Parking	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Residential Parking	Welders	1	8.00	46	0.45
Hotel Coatings	Air Compressors	1	6.00	78	0.48
On-Site Paving	Cement and Mortar Mixers	1	8.00	9	0.56
On-Site Paving	Pavers	1	8.00	125	0.42
On-Site Paving	Paving Equipment	1	8.00	130	0.36
On-Site Paving	Rollers	1	8.00	80	0.38
On-Site Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Flair Drive Paving	Cement and Mortar Mixers	4	8.00	9	0.56
Flair Drive Paving	Pavers	1	8.00	125	0.42
Flair Drive Paving	Paving Equipment	0	8.00	130	0.36
Flair Drive Paving	Rollers	1	8.00	80	0.38
Flair Drive Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Rio Hondo Paving	Cement and Mortar Mixers	4	8.00	9	0.56
Rio Hondo Paving	Pavers	1	8.00	125	0.42
Rio Hondo Paving	Paving Equipment	0	8.00	130	0.36
Rio Hondo Paving	Rollers	1	8.00	80	0.38
Rio Hondo Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Retail Coatings	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Clearing and Grubbing	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Hotel Grading	5	13.00	0.00	7,632.00	14.70	6.90	10.00	LD_Mix	HDT_Mix	HHDT
Retail Grading	6	15.00	0.00	9,877.00	14.70	6.90	10.00	LD_Mix	HDT_Mix	HHDT
Hotel Construction	7	100.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Grading	6	15.00	0.00	5,890.00	14.70	6.90	10.00	LD_Mix	HDT_Mix	HHDT
Retail Construction	11	85.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Parking	11	150.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Hotel Coatings	1	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
On-Site Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flair Drive Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rio Hondo Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Retail Coatings	1	17.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Clean Paved Roads

**3.2 Clearing and Grubbing - 2015**

**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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	0.4757	2.0615	21.2415	0.0391		0.0634	0.0634		0.0634	0.0634			4,111.7444	1.2275		4,137.5224
<b>Total</b>	<b>0.4757</b>	<b>2.0615</b>	<b>21.2415</b>	<b>0.0391</b>	<b>18.0663</b>	<b>0.0634</b>	<b>18.1297</b>	<b>9.9307</b>	<b>0.0634</b>	<b>9.9941</b>			<b>4,111.7444</b>	<b>1.2275</b>		<b>4,137.5224</b>

**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
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
Worker	0.0850	0.1141	1.1926	2.3900e-003	0.2012	1.7700e-003	0.2030	0.0534	1.6200e-003	0.0550			208.0159	0.0119		208.2664
<b>Total</b>	<b>0.0850</b>	<b>0.1141</b>	<b>1.1926</b>	<b>2.3900e-003</b>	<b>0.2012</b>	<b>1.7700e-003</b>	<b>0.2030</b>	<b>0.0534</b>	<b>1.6200e-003</b>	<b>0.0550</b>			<b>208.0159</b>	<b>0.0119</b>		<b>208.2664</b>

**3.3 Hotel Grading - 2015**

**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					6.7496	0.0000	6.7496	3.3974	0.0000	3.3974			0.0000			0.0000
Off-Road	0.3245	1.4063	17.3145	0.0267		0.0433	0.0433		0.0433	0.0433			2,801.5281	0.8364		2,819.0920
<b>Total</b>	<b>0.3245</b>	<b>1.4063</b>	<b>17.3145</b>	<b>0.0267</b>	<b>6.7496</b>	<b>0.0433</b>	<b>6.7929</b>	<b>3.3974</b>	<b>0.0433</b>	<b>3.4406</b>			<b>2,801.5281</b>	<b>0.8364</b>		<b>2,819.0920</b>

**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	3.1697	37.7699	42.6602	0.0825	1.9013	0.5963	2.4975	0.5208	0.5484	1.0691			8,365.3699	0.0723		8,366.8875
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
Worker	0.0614	0.0824	0.8613	1.7300e-003	0.1453	1.2800e-003	0.1466	0.0385	1.1700e-003	0.0397			150.2337	8.6200e-003		150.4146
<b>Total</b>	<b>3.2311</b>	<b>37.8523</b>	<b>43.5215</b>	<b>0.0842</b>	<b>2.0466</b>	<b>0.5976</b>	<b>2.6441</b>	<b>0.5593</b>	<b>0.5495</b>	<b>1.1088</b>			<b>8,515.6035</b>	<b>0.0809</b>		<b>8,517.3021</b>

**3.4 Retail Grading - 2015**

**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					6.6748	0.0000	6.6748	3.3860	0.0000	3.3860			0.0000			0.0000
Off-Road	0.3625	1.5709	19.6566	0.0298		0.0483	0.0483		0.0483	0.0483			3,129.0158	0.9341		3,148.6328
<b>Total</b>	<b>0.3625</b>	<b>1.5709</b>	<b>19.6566</b>	<b>0.0298</b>	<b>6.6748</b>	<b>0.0483</b>	<b>6.7231</b>	<b>3.3860</b>	<b>0.0483</b>	<b>3.4344</b>			<b>3,129.0158</b>	<b>0.9341</b>		<b>3,148.6328</b>

**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	1.9668	23.4357	26.4700	0.0512	1.1797	0.3700	1.5497	0.3231	0.3402	0.6634			5,190.5936	0.0448		5,191.5352
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
Worker	0.0709	0.0951	0.9938	1.9900e-003	0.1677	1.4800e-003	0.1691	0.0445	1.3500e-003	0.0458			173.3466	9.9400e-003		173.5553
<b>Total</b>	<b>2.0376</b>	<b>23.5308</b>	<b>27.4639</b>	<b>0.0532</b>	<b>1.3474</b>	<b>0.3715</b>	<b>1.7188</b>	<b>0.3676</b>	<b>0.3416</b>	<b>0.7092</b>			<b>5,363.9401</b>	<b>0.0548</b>		<b>5,365.0905</b>

**3.5 Hotel Construction - 2015**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2142	0.9280	11.6892	0.0191		0.0286	0.0286		0.0286	0.0286			1,929.9392	0.4770		1,939.9559
<b>Total</b>	<b>0.2142</b>	<b>0.9280</b>	<b>11.6892</b>	<b>0.0191</b>		<b>0.0286</b>	<b>0.0286</b>		<b>0.0286</b>	<b>0.0286</b>			<b>1,929.9392</b>	<b>0.4770</b>		<b>1,939.9559</b>

**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
Vendor	0.0830	0.8066	1.0286	1.7300e-003	0.0500	0.0138	0.0637	0.0142	0.0127	0.0269			175.0258	1.4300e-003		175.0558
Worker	0.4724	0.6341	6.6254	0.0133	1.1178	9.8400e-003	1.1276	0.2964	9.0200e-003	0.3055			1,155.6437	0.0663		1,157.0355
<b>Total</b>	<b>0.5555</b>	<b>1.4407</b>	<b>7.6540</b>	<b>0.0150</b>	<b>1.1677</b>	<b>0.0236</b>	<b>1.1913</b>	<b>0.3107</b>	<b>0.0217</b>	<b>0.3323</b>			<b>1,330.6695</b>	<b>0.0677</b>		<b>1,332.0913</b>

### 3.5 Hotel Construction - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2142	0.9280	11.6892	0.0191		0.0286	0.0286		0.0286	0.0286			1,914.6269	0.4718		1,924.5347
<b>Total</b>	<b>0.2142</b>	<b>0.9280</b>	<b>11.6892</b>	<b>0.0191</b>		<b>0.0286</b>	<b>0.0286</b>		<b>0.0286</b>	<b>0.0286</b>			<b>1,914.6269</b>	<b>0.4718</b>		<b>1,924.5347</b>

#### 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
Vendor	0.0733	0.7123	0.9578	1.7300e-003	0.0500	0.0114	0.0614	0.0142	0.0105	0.0247			173.0956	1.2900e-003		173.1226
Worker	0.4256	0.5719	5.9800	0.0133	1.1178	9.3400e-003	1.1271	0.2964	8.5900e-003	0.3050			1,115.6952	0.0610		1,116.9758
<b>Total</b>	<b>0.4988</b>	<b>1.2842</b>	<b>6.9378</b>	<b>0.0150</b>	<b>1.1678</b>	<b>0.0207</b>	<b>1.1885</b>	<b>0.3107</b>	<b>0.0191</b>	<b>0.3298</b>			<b>1,288.7907</b>	<b>0.0623</b>		<b>1,290.0984</b>

### 3.6 Residential Grading - 2015

#### 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					6.7497	0.0000	6.7497	3.3974	0.0000	3.3974			0.0000			0.0000
Off-Road	0.3897	1.6886	21.3317	0.0320		0.0520	0.0520		0.0520	0.0520			3,357.0832	1.0022		3,378.1300
<b>Total</b>	<b>0.3897</b>	<b>1.6886</b>	<b>21.3317</b>	<b>0.0320</b>	<b>6.7497</b>	<b>0.0520</b>	<b>6.8017</b>	<b>3.3974</b>	<b>0.0520</b>	<b>3.4493</b>			<b>3,357.0832</b>	<b>1.0022</b>		<b>3,378.1300</b>

#### 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	3.1711	37.7857	42.6780	0.0825	1.9021	0.5965	2.4986	0.5210	0.5486	1.0696			8,368.8611	0.0723		8,370.3794
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
Worker	0.0709	0.0951	0.9938	1.9900e-003	0.1677	1.4800e-003	0.1691	0.0445	1.3500e-003	0.0458			173.3466	9.9400e-003		173.5553
<b>Total</b>	<b>3.2419</b>	<b>37.8808</b>	<b>43.6718</b>	<b>0.0845</b>	<b>2.0697</b>	<b>0.5980</b>	<b>2.6677</b>	<b>0.5655</b>	<b>0.5499</b>	<b>1.1154</b>			<b>8,542.2077</b>	<b>0.0822</b>		<b>8,543.9347</b>

### 3.7 Retail Construction - 2015

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3758	2.4427	20.4533	0.0325		0.0472	0.0472		0.0472	0.0472			3,207.3703	0.7302		3,222.7049
<b>Total</b>	<b>0.3758</b>	<b>2.4427</b>	<b>20.4533</b>	<b>0.0325</b>		<b>0.0472</b>	<b>0.0472</b>		<b>0.0472</b>	<b>0.0472</b>			<b>3,207.3703</b>	<b>0.7302</b>		<b>3,222.7049</b>

**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
Vendor	0.0830	0.8066	1.0286	1.7300e-003	0.0500	0.0138	0.0637	0.0142	0.0127	0.0269			175.0258	1.4300e-003		175.0558
Worker	0.4016	0.5390	5.6316	0.0113	0.9501	8.3600e-003	0.9585	0.2520	7.6600e-003	0.2596			982.2971	0.0563		983.4802
<b>Total</b>	<b>0.4846</b>	<b>1.3456</b>	<b>6.6602</b>	<b>0.0130</b>	<b>1.0001</b>	<b>0.0221</b>	<b>1.0222</b>	<b>0.2662</b>	<b>0.0203</b>	<b>0.2865</b>			<b>1,157.3230</b>	<b>0.0578</b>		<b>1,158.5359</b>

**3.7 Retail Construction - 2016**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3758	2.4427	20.4533	0.0325		0.0472	0.0472		0.0472	0.0472			3,187.0787	0.7125		3,202.0412
<b>Total</b>	<b>0.3758</b>	<b>2.4427</b>	<b>20.4533</b>	<b>0.0325</b>		<b>0.0472</b>	<b>0.0472</b>		<b>0.0472</b>	<b>0.0472</b>			<b>3,187.0787</b>	<b>0.7125</b>		<b>3,202.0412</b>

**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
Vendor	0.0733	0.7123	0.9578	1.7300e-003	0.0500	0.0114	0.0614	0.0142	0.0105	0.0247			173.0956	1.2900e-003		173.1226
Worker	0.3618	0.4861	5.0830	0.0113	0.9501	7.9400e-003	0.9580	0.2520	7.3000e-003	0.2593			948.3409	0.0518		949.4294
<b>Total</b>	<b>0.4350</b>	<b>1.1984</b>	<b>6.0408</b>	<b>0.0130</b>	<b>1.0001</b>	<b>0.0193</b>	<b>1.0194</b>	<b>0.2662</b>	<b>0.0178</b>	<b>0.2840</b>			<b>1,121.4364</b>	<b>0.0531</b>		<b>1,122.5521</b>

**3.8 Residential Parking - 2015**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3758	2.4427	20.4533	0.0325		0.0472	0.0472		0.0472	0.0472			3,207.3703	0.7302		3,222.7049
<b>Total</b>	<b>0.3758</b>	<b>2.4427</b>	<b>20.4533</b>	<b>0.0325</b>		<b>0.0472</b>	<b>0.0472</b>		<b>0.0472</b>	<b>0.0472</b>			<b>3,207.3703</b>	<b>0.7302</b>		<b>3,222.7049</b>

**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
Vendor	0.0830	0.8066	1.0286	1.7300e-003	0.0500	0.0138	0.0637	0.0142	0.0127	0.0269			175.0258	1.4300e-003		175.0558
Worker	0.7086	0.9512	9.9382	0.0199	1.6767	0.0148	1.6914	0.4447	0.0135	0.4582			1,733.4655	0.0994		1,735.5532
<b>Total</b>	<b>0.7917</b>	<b>1.7578</b>	<b>10.9667</b>	<b>0.0217</b>	<b>1.7266</b>	<b>0.0285</b>	<b>1.7551</b>	<b>0.4589</b>	<b>0.0262</b>	<b>0.4851</b>			<b>1,908.4914</b>	<b>0.1008</b>		<b>1,910.6090</b>

### 3.8 Residential Parking - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3758	2.4427	20.4533	0.0325		0.0472	0.0472		0.0472	0.0472			3,187.0787	0.7125		3,202.0412
<b>Total</b>	<b>0.3758</b>	<b>2.4427</b>	<b>20.4533</b>	<b>0.0325</b>		<b>0.0472</b>	<b>0.0472</b>		<b>0.0472</b>	<b>0.0472</b>			<b>3,187.0787</b>	<b>0.7125</b>		<b>3,202.0412</b>

#### 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
Vendor	0.0733	0.7123	0.9578	1.7300e-003	0.0500	0.0114	0.0614	0.0142	0.0105	0.0247			173.0956	1.2900e-003		173.1226
Worker	0.6384	0.8579	8.9700	0.0199	1.6767	0.0140	1.6907	0.4447	0.0129	0.4575			1,673.5427	0.0915		1,675.4637
<b>Total</b>	<b>0.7116</b>	<b>1.5702</b>	<b>9.9278</b>	<b>0.0216</b>	<b>1.7267</b>	<b>0.0254</b>	<b>1.7521</b>	<b>0.4589</b>	<b>0.0234</b>	<b>0.4823</b>			<b>1,846.6383</b>	<b>0.0928</b>		<b>1,848.5863</b>

### 3.9 Hotel Coatings - 2016

<b>Total</b>	<b>0.0851</b>	<b>0.1144</b>	<b>1.1960</b>	<b>2.6500e-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>223.1390</b>	<b>0.0122</b>		<b>223.3952</b>
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#### 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	386.2500					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003			281.4481	0.0332		282.1449
<b>Total</b>	<b>386.2797</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>			<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</b>

#### 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
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
Worker	0.0851	0.1144	1.1960	2.6500e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610			223.1390	0.0122		223.3952
<b>Total</b>	<b>0.0851</b>	<b>0.1144</b>	<b>1.1960</b>	<b>2.6500e-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>223.1390</b>	<b>0.0122</b>		<b>223.3952</b>

### 3.10 On-Site Paving - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1752	0.7593	10.8059	0.0150		0.0234	0.0234		0.0234	0.0234			1,532.3821	0.4522		1,541.8788
Paving	0.4454					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6206</b>	<b>0.7593</b>	<b>10.8059</b>	<b>0.0150</b>		<b>0.0234</b>	<b>0.0234</b>		<b>0.0234</b>	<b>0.0234</b>			<b>1,532.3821</b>	<b>0.4522</b>		<b>1,541.8788</b>

**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
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
Worker	0.0553	0.0744	0.7774	1.7300e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397			145.0404	7.9300e-003		145.2069
<b>Total</b>	<b>0.0553</b>	<b>0.0744</b>	<b>0.7774</b>	<b>1.7300e-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>145.0404</b>	<b>7.9300e-003</b>		<b>145.2069</b>

**3.11 Flair Drive Paving - 2016**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1257	0.5447	7.7519	0.0131		0.0168	0.0168		0.0168	0.0168			1,267.2474	0.3423		1,274.4351
Paving	1.6034					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.7292</b>	<b>0.5447</b>	<b>7.7519</b>	<b>0.0131</b>		<b>0.0168</b>	<b>0.0168</b>		<b>0.0168</b>	<b>0.0168</b>			<b>1,267.2474</b>	<b>0.3423</b>		<b>1,274.4351</b>

**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
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
Worker	0.0766	0.1029	1.0764	2.3900e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549			200.8251	0.0110		201.0556
<b>Total</b>	<b>0.0766</b>	<b>0.1029</b>	<b>1.0764</b>	<b>2.3900e-003</b>	<b>0.2012</b>	<b>1.6800e-003</b>	<b>0.2029</b>	<b>0.0534</b>	<b>1.5500e-003</b>	<b>0.0549</b>			<b>200.8251</b>	<b>0.0110</b>		<b>201.0556</b>

**3.12 Rio Hondo Paving - 2016**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1257	0.5447	7.7519	0.0131		0.0168	0.0168		0.0168	0.0168			1,267.2474	0.3423		1,274.4351
Paving	1.6034					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.7292</b>	<b>0.5447</b>	<b>7.7519</b>	<b>0.0131</b>		<b>0.0168</b>	<b>0.0168</b>		<b>0.0168</b>	<b>0.0168</b>			<b>1,267.2474</b>	<b>0.3423</b>		<b>1,274.4351</b>

**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
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
Worker	0.0766	0.1029	1.0764	2.3900e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549			200.8251	0.0110		201.0556
<b>Total</b>	<b>0.0766</b>	<b>0.1029</b>	<b>1.0764</b>	<b>2.3900e-003</b>	<b>0.2012</b>	<b>1.6800e-003</b>	<b>0.2029</b>	<b>0.0534</b>	<b>1.5500e-003</b>	<b>0.0549</b>			<b>200.8251</b>	<b>0.0110</b>		<b>201.0556</b>

### 3.13 Retail Coatings - 2016

#### 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	799.5375					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003			281.4481	0.0332		282.1449
<b>Total</b>	<b>799.5672</b>	<b>0.1288</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>			<b>281.4481</b>	<b>0.0332</b>		<b>282.1449</b>

#### 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
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
Worker	0.0724	0.0972	1.0166	2.2600e-003	0.1900	1.5900e-003	0.1916	0.0504	1.4600e-003	0.0519			189.6682	0.0104		189.8859
<b>Total</b>	<b>0.0724</b>	<b>0.0972</b>	<b>1.0166</b>	<b>2.2600e-003</b>	<b>0.1900</b>	<b>1.5900e-003</b>	<b>0.1916</b>	<b>0.0504</b>	<b>1.4600e-003</b>	<b>0.0519</b>			<b>189.6682</b>	<b>0.0104</b>		<b>189.8859</b>

**Flair Spectrum Phase I Construction  
South Coast Air Basin, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	289.67	1000sqft	0.00	289,670.00	0
Enclosed Parking with Elevator	75.51	1000sqft	0.00	75,513.00	0
Other Asphalt Surfaces	1.87	Acre	1.87	0.00	0
Other Asphalt Surfaces	0.50	Acre	0.50	0.00	0
Other Asphalt Surfaces	0.69	Acre	0.69	0.00	0
Other Non-Asphalt Surfaces	1.56	Acre	1.56	0.00	0
Hotel	250.00	Room	0.62	189,820.00	0
Quality Restaurant	50.00	1000sqft	0.00	50,000.00	0
Regional Shopping Center	640.00	1000sqft	7.20	640,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9			<b>Operational Year</b>	2017
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	630.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

- Project Characteristics -
- Land Use - Revise Default Areas to Match Project
- Construction Phase - Adjust Schedule to Match Project
- Off-road Equipment -
- Off-road Equipment - Adjust to 0.5 Acres of Paving
- Off-road Equipment - Phase Reflects 0.62 Acre Site Area
- Off-road Equipment - Adjust Equipment to 0.62 Acres Site Area
- Off-road Equipment - Adjust Equipment to Include 0.62 Site Area and Use of Excavator
- Off-road Equipment - Adjust to 1.87 Acres of Paving
- Off-road Equipment - Adjust to 2.47 Acres Site Area and Use of Excavator
- Off-road Equipment - Add Pump and Cement Mixer for Parking Structure
- Off-road Equipment -
- Off-road Equipment - Add Pump and Cement Mixer for Parking Structure
- Off-road Equipment - Adjust to 7.20 Acres of Site Area
- Off-road Equipment - Adjust to 0.69 Acres of Paving
- Trips and VMT - Vendor Trips Estimated at 8 Per Day Per Contractor Estimates
- Peak Hotel Construction Workers at 100 Per Contractor Estimate
- Grading -
- Architectural Coating - Coating Area Adjusted to Building Sizes
- Vehicle Emission Factors -
- Vehicle Emission Factors -
- Vehicle Emission Factors -
- Construction Off-road Equipment Mitigation - Evaluate Tier IV COstruction Equipment

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	622,502.00	345,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	622,502.00	94,910.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,867,505.00	1,035,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,867,505.00	284,730.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblAreaCoating	Area_Nonresidential_Interior	1867505	1319730
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	22.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	18.00
tblConstructionPhase	NumDays	300.00	230.00
tblConstructionPhase	NumDays	30.00	35.00
tblConstructionPhase	NumDays	30.00	73.00
tblConstructionPhase	NumDays	30.00	27.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	20.00	18.00
tblConstructionPhase	PhaseEndDate	4/20/2016	9/5/2016
tblConstructionPhase	PhaseEndDate	10/10/2016	2/12/2016
tblConstructionPhase	PhaseEndDate	5/2/2016	1/20/2016
tblConstructionPhase	PhaseEndDate	9/14/2016	8/8/2016

tblConstructionPhase	PhaseEndDate	10/2/2017	9/14/2016
tblConstructionPhase	PhaseEndDate	2/26/2016	7/22/2015
tblConstructionPhase	PhaseStartDate	3/24/2016	8/9/2016
tblConstructionPhase	PhaseStartDate	9/15/2016	1/20/2016
tblConstructionPhase	PhaseStartDate	6/16/2015	3/5/2015
tblConstructionPhase	PhaseStartDate	7/23/2015	6/16/2015
tblConstructionPhase	PhaseStartDate	8/9/2016	7/23/2015
tblConstructionPhase	PhaseStartDate	1/21/2016	6/16/2015
tblGrading	MaterialExported	0.00	61,054.00
tblGrading	MaterialExported	0.00	79,016.00
tblGrading	MaterialExported	0.00	47,118.00
tblLandUse	LandUseSquareFeet	75,510.00	75,513.00
tblLandUse	LandUseSquareFeet	21,780.00	0.00
tblLandUse	LandUseSquareFeet	30,056.40	0.00
tblLandUse	LandUseSquareFeet	81,457.20	0.00
tblLandUse	LandUseSquareFeet	67,953.60	0.00
tblLandUse	LandUseSquareFeet	363,000.00	189,820.00
tblLandUse	LotAcreage	6.65	0.00
tblLandUse	LotAcreage	1.73	0.00
tblLandUse	LotAcreage	8.33	0.62
tblLandUse	LotAcreage	1.15	0.00
tblLandUse	LotAcreage	14.69	7.20
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2017
tblSolidWaste	SolidWasteGenerationRate	45.63	51.50
tblSolidWaste	SolidWasteGenerationRate	672.00	624.01
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblTripsAndVMT	HaulingTripLength	20.00	10.00
tblTripsAndVMT	VendorTripNumber	204.00	8.00
tblTripsAndVMT	VendorTripNumber	204.00	8.00
tblTripsAndVMT	VendorTripNumber	204.00	8.00
tblTripsAndVMT	WorkerTripNumber	92.00	17.00

tblTripsAndVMT	WorkerTripNumber	459.00	100.00
tblTripsAndVMT	WorkerTripNumber	459.00	85.00
tblTripsAndVMT	WorkerTripNumber	459.00	150.00
tblTripsAndVMT	WorkerTripNumber	92.00	20.00
tblWater	IndoorWaterUseRate	15,176,685.62	17,131,442.73
tblWater	IndoorWaterUseRate	47,406,413.75	44,021,299.52
tblWater	OutdoorWaterUseRate	968,724.61	1,093,496.34
tblWater	OutdoorWaterUseRate	29,055,543.91	26,980,796.48

## 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					
2015	1.3943	12.2542	10.4916	0.0169	0.9476	0.6804	1.6280	0.3871	0.6375	1.0246			1,503.5909	0.2144	0.0000	1,508.0926
2016	0.8304	6.1960	5.4557	9.1600e-003	0.2471	0.4129	0.6600	0.0658	0.3908	0.4566			779.5970	0.1312	0.0000	782.3531
<b>Total</b>	<b>2.2247</b>	<b>18.4502</b>	<b>15.9473</b>	<b>0.0261</b>	<b>1.1947</b>	<b>1.0933</b>	<b>2.2881</b>	<b>0.4529</b>	<b>1.0283</b>	<b>1.4812</b>			<b>2,283.1879</b>	<b>0.3456</b>	<b>0.0000</b>	<b>2,290.4457</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					
2015	0.4024	2.9628	9.6141	0.0169	0.9476	0.0505	0.9981	0.3871	0.0474	0.4345			1,503.5900	0.2144	0.0000	1,508.0917
2016	0.1801	0.6918	5.2363	9.1600e-003	0.2471	0.0127	0.2598	0.0658	0.0123	0.0781			779.5964	0.1312	0.0000	782.3525
<b>Total</b>	<b>0.5825</b>	<b>3.6546</b>	<b>14.8504</b>	<b>0.0261</b>	<b>1.1947</b>	<b>0.0631</b>	<b>1.2578</b>	<b>0.4529</b>	<b>0.0598</b>	<b>0.5126</b>			<b>2,283.1864</b>	<b>0.3456</b>	<b>0.0000</b>	<b>2,290.4442</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
<b>Percent Reduction</b>	<b>73.81</b>	<b>80.19</b>	<b>6.88</b>	<b>0.00</b>	<b>0.00</b>	<b>94.23</b>	<b>45.03</b>	<b>0.00</b>	<b>94.19</b>	<b>65.39</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

## 3.0 Construction Detail

### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Clearing and Grubbing	Site Preparation	1/1/2015	1/14/2015	5	10	
2	Hotel Grading	Grading	1/15/2015	3/4/2015	5	35	
3	Retail Grading	Grading	3/5/2015	6/15/2015	5	73	
4	Hotel Construction	Building Construction	3/5/2015	1/20/2016	5	230	
5	Residential Grading	Grading	6/16/2015	7/22/2015	5	27	
6	Retail Construction	Building Construction	6/16/2015	8/8/2016	5	300	
7	Residential Parking	Building Construction	7/23/2015	9/14/2016	5	300	1 Basement + 5 Floors
8	Hotel Coatings	Architectural Coating	1/20/2016	2/12/2016	5	18	
9	On-Site Paving	Paving	2/13/2016	3/9/2016	5	18	
10	Flair Drive Paving	Paving	3/10/2016	3/16/2016	5	5	
11	Rio Hondo Paving	Paving	3/17/2016	3/23/2016	5	5	
12	Retail Coatings	Architectural Coating	8/9/2016	9/5/2016	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 284,730; Non-Residential Outdoor: 94,910 (Architectural Coating

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Clearing and Grubbing	Rubber Tired Dozers	3	8.00	255	0.40
Clearing and Grubbing	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Hotel Grading	Excavators	1	8.00	162	0.38
Hotel Grading	Graders	1	8.00	174	0.41
Hotel Grading	Rubber Tired Dozers	1	8.00	255	0.40
Hotel Grading	Scrapers	0	8.00	361	0.48
Hotel Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Retail Grading	Excavators	1	8.00	162	0.38
Retail Grading	Graders	1	8.00	174	0.41
Retail Grading	Rubber Tired Dozers	1	8.00	255	0.40
Retail Grading	Scrapers	0	8.00	361	0.48
Retail Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Hotel Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Hotel Construction	Cranes	1	7.00	226	0.29
Hotel Construction	Forklifts	2	8.00	89	0.20
Hotel Construction	Generator Sets	0	8.00	84	0.74
Hotel Construction	Pumps	1	6.00	84	0.74
Hotel Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Hotel Construction	Welders	0	8.00	46	0.45
Residential Grading	Excavators	2	8.00	162	0.38
Residential Grading	Graders	1	8.00	174	0.41
Residential Grading	Rubber Tired Dozers	1	8.00	255	0.40
Residential Grading	Scrapers	0	8.00	361	0.48
Residential Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Retail Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Retail Construction	Cranes	1	7.00	226	0.29
Retail Construction	Forklifts	3	8.00	89	0.20
Retail Construction	Generator Sets	1	8.00	84	0.74
Retail Construction	Pumps	1	6.00	84	0.74
Retail Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Retail Construction	Welders	1	8.00	46	0.45
Residential Parking	Cement and Mortar Mixers	1	8.00	9	0.56
Residential Parking	Cranes	1	7.00	226	0.29
Residential Parking	Forklifts	3	8.00	89	0.20
Residential Parking	Generator Sets	1	8.00	84	0.74
Residential Parking	Pumps	1	6.00	84	0.74
Residential Parking	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Residential Parking	Welders	1	8.00	46	0.45
Hotel Coatings	Air Compressors	1	6.00	78	0.48
On-Site Paving	Cement and Mortar Mixers	1	8.00	9	0.56
On-Site Paving	Pavers	1	8.00	125	0.42
On-Site Paving	Paving Equipment	1	8.00	130	0.36
On-Site Paving	Rollers	1	8.00	80	0.38
On-Site Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Flair Drive Paving	Cement and Mortar Mixers	4	8.00	9	0.56
Flair Drive Paving	Pavers	1	8.00	125	0.42

Flair Drive Paving	Paving Equipment	0	8.00	130	0.36
Flair Drive Paving	Rollers	1	8.00	80	0.38
Flair Drive Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Rio Hondo Paving	Cement and Mortar Mixers	4	8.00	9	0.56
Rio Hondo Paving	Pavers	1	8.00	125	0.42
Rio Hondo Paving	Paving Equipment	0	8.00	130	0.36
Rio Hondo Paving	Rollers	1	8.00	80	0.38
Rio Hondo Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Retail Coatings	Air Compressors	1	6.00	78	0.48

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Clearing and Grubbing	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Hotel Grading	5	13.00	0.00	7,632.00	14.70	6.90	10.00	LD_Mix	HDT_Mix	HHDT
Retail Grading	6	15.00	0.00	9,877.00	14.70	6.90	10.00	LD_Mix	HDT_Mix	HHDT
Hotel Construction	7	100.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Grading	6	15.00	0.00	5,890.00	14.70	6.90	10.00	LD_Mix	HDT_Mix	HHDT
Retail Construction	11	85.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Residential Parking	11	150.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Hotel Coatings	1	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
On-Site Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Flair Drive Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rio Hondo Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Retail Coatings	1	17.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Clean Paved Roads

### 3.2 Clearing and Grubbing - 2015

#### 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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0263	0.2845	0.2132	2.0000e-004		0.0154	0.0154		0.0142	0.0142			18.6506	5.5700e-003	0.0000	18.7675
<b>Total</b>	<b>0.0263</b>	<b>0.2845</b>	<b>0.2132</b>	<b>2.0000e-004</b>	<b>0.0903</b>	<b>0.0154</b>	<b>0.1058</b>	<b>0.0497</b>	<b>0.0142</b>	<b>0.0639</b>			<b>18.6506</b>	<b>5.5700e-003</b>	<b>0.0000</b>	<b>18.7675</b>

#### 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
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	4.0000e-004	5.9000e-004	6.1000e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004			0.9582	5.0000e-005	0.0000	0.9594
<b>Total</b>	<b>4.0000e-004</b>	<b>5.9000e-004</b>	<b>6.1000e-003</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>2.6000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>			<b>0.9582</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.9594</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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497			0.0000	0.0000	0.0000	0.0000
Off-Road	2.3800e-003	0.0103	0.1062	2.0000e-004		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004			18.6505	5.5700e-003	0.0000	18.7675
<b>Total</b>	<b>2.3800e-003</b>	<b>0.0103</b>	<b>0.1062</b>	<b>2.0000e-004</b>	<b>0.0903</b>	<b>3.2000e-004</b>	<b>0.0907</b>	<b>0.0497</b>	<b>3.2000e-004</b>	<b>0.0500</b>			<b>18.6505</b>	<b>5.5700e-003</b>	<b>0.0000</b>	<b>18.7675</b>

**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
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	4.0000e-004	5.9000e-004	6.1000e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004			0.9582	5.0000e-005	0.0000	0.9594
<b>Total</b>	<b>4.0000e-004</b>	<b>5.9000e-004</b>	<b>6.1000e-003</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>2.6000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>			<b>0.9582</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.9594</b>

**3.3 Hotel Grading - 2015**

**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					0.1181	0.0000	0.1181	0.0595	0.0000	0.0595			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0608	0.6472	0.4243	4.7000e-004		0.0360	0.0360		0.0332	0.0332			44.4763	0.0133	0.0000	44.7552
<b>Total</b>	<b>0.0608</b>	<b>0.6472</b>	<b>0.4243</b>	<b>4.7000e-004</b>	<b>0.1181</b>	<b>0.0360</b>	<b>0.1542</b>	<b>0.0595</b>	<b>0.0332</b>	<b>0.0926</b>			<b>44.4763</b>	<b>0.0133</b>	<b>0.0000</b>	<b>44.7552</b>

**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	0.0542	0.6725	0.7316	1.4500e-003	0.0327	0.0104	0.0431	8.9800e-003	9.5600e-003	0.0185			133.1641	1.1300e-003	0.0000	133.1879
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	1.0100e-003	1.4900e-003	0.0154	3.0000e-005	2.5000e-003	2.0000e-005	2.5200e-003	6.6000e-004	2.0000e-005	6.8000e-004			2.4222	1.4000e-004	0.0000	2.4251
<b>Total</b>	<b>0.0552</b>	<b>0.6740</b>	<b>0.7470</b>	<b>1.4800e-003</b>	<b>0.0352</b>	<b>0.0104</b>	<b>0.0457</b>	<b>9.6400e-003</b>	<b>9.5800e-003</b>	<b>0.0192</b>			<b>135.5863</b>	<b>1.2700e-003</b>	<b>0.0000</b>	<b>135.6130</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					0.1181	0.0000	0.1181	0.0595	0.0000	0.0595			0.0000	0.0000	0.0000	0.0000
Off-Road	5.6800e-003	0.0246	0.3030	4.7000e-004		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004			44.4763	0.0133	0.0000	44.7551
<b>Total</b>	<b>5.6800e-003</b>	<b>0.0246</b>	<b>0.3030</b>	<b>4.7000e-004</b>	<b>0.1181</b>	<b>7.6000e-004</b>	<b>0.1189</b>	<b>0.0595</b>	<b>7.6000e-004</b>	<b>0.0602</b>			<b>44.4763</b>	<b>0.0133</b>	<b>0.0000</b>	<b>44.7551</b>

**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	0.0542	0.6725	0.7316	1.4500e-003	0.0327	0.0104	0.0431	8.9800e-003	9.5600e-003	0.0185			133.1641	1.1300e-003	0.0000	133.1879
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	1.0100e-003	1.4900e-003	0.0154	3.0000e-005	2.5000e-003	2.0000e-005	2.5200e-003	6.6000e-004	2.0000e-005	6.8000e-004			2.4222	1.4000e-004	0.0000	2.4251
<b>Total</b>	<b>0.0552</b>	<b>0.6740</b>	<b>0.7470</b>	<b>1.4800e-003</b>	<b>0.0352</b>	<b>0.0104</b>	<b>0.0457</b>	<b>9.6400e-003</b>	<b>9.5800e-003</b>	<b>0.0192</b>			<b>135.5863</b>	<b>1.2700e-003</b>	<b>0.0000</b>	<b>135.6130</b>

**3.4 Retail Grading - 2015**

**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					0.2436	0.0000	0.2436	0.1236	0.0000	0.1236			0.0000	0.0000	0.0000	0.0000
Off-Road	0.1399	1.4752	0.9736	1.0900e-003		0.0850	0.0850		0.0782	0.0782			103.6087	0.0309	0.0000	104.2583
<b>Total</b>	<b>0.1399</b>	<b>1.4752</b>	<b>0.9736</b>	<b>1.0900e-003</b>	<b>0.2436</b>	<b>0.0850</b>	<b>0.3286</b>	<b>0.1236</b>	<b>0.0782</b>	<b>0.2018</b>			<b>103.6087</b>	<b>0.0309</b>	<b>0.0000</b>	<b>104.2583</b>

**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	0.0702	0.8704	0.9468	1.8700e-003	0.0424	0.0135	0.0558	0.0116	0.0124	0.0240			172.3352	1.4700e-003	0.0000	172.3660
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	2.4400e-003	3.5700e-003	0.0371	7.0000e-005	6.0100e-003	5.0000e-005	6.0600e-003	1.6000e-003	5.0000e-005	1.6400e-003			5.8292	3.3000e-004	0.0000	5.8361
<b>Total</b>	<b>0.0726</b>	<b>0.8739</b>	<b>0.9839</b>	<b>1.9400e-003</b>	<b>0.0484</b>	<b>0.0135</b>	<b>0.0619</b>	<b>0.0132</b>	<b>0.0124</b>	<b>0.0256</b>			<b>178.1644</b>	<b>1.8000e-003</b>	<b>0.0000</b>	<b>178.2021</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					0.2436	0.0000	0.2436	0.1236	0.0000	0.1236			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0132	0.0573	0.7175	1.0900e-003		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003			103.6086	0.0309	0.0000	104.2582
<b>Total</b>	<b>0.0132</b>	<b>0.0573</b>	<b>0.7175</b>	<b>1.0900e-003</b>	<b>0.2436</b>	<b>1.7600e-003</b>	<b>0.2454</b>	<b>0.1236</b>	<b>1.7600e-003</b>	<b>0.1254</b>			<b>103.6086</b>	<b>0.0309</b>	<b>0.0000</b>	<b>104.2582</b>

**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	0.0702	0.8704	0.9468	1.8700e-003	0.0424	0.0135	0.0558	0.0116	0.0124	0.0240			172.3352	1.4700e-003	0.0000	172.3660
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	2.4400e-003	3.5700e-003	0.0371	7.0000e-005	6.0100e-003	5.0000e-005	6.0600e-003	1.6000e-003	5.0000e-005	1.6400e-003			5.8292	3.3000e-004	0.0000	5.8361
<b>Total</b>	<b>0.0726</b>	<b>0.8739</b>	<b>0.9839</b>	<b>1.9400e-003</b>	<b>0.0484</b>	<b>0.0135</b>	<b>0.0619</b>	<b>0.0132</b>	<b>0.0124</b>	<b>0.0256</b>			<b>178.1644</b>	<b>1.8000e-003</b>	<b>0.0000</b>	<b>178.2021</b>

### 3.5 Hotel Construction - 2015

#### 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	0.2570	2.3988	1.3727	2.0600e-003		0.1604	0.1604		0.1502	0.1502			189.0876	0.0467	0.0000	190.0690
<b>Total</b>	<b>0.2570</b>	<b>2.3988</b>	<b>1.3727</b>	<b>2.0600e-003</b>		<b>0.1604</b>	<b>0.1604</b>		<b>0.1502</b>	<b>0.1502</b>			<b>189.0876</b>	<b>0.0467</b>	<b>0.0000</b>	<b>190.0690</b>

#### 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
Vendor	8.7100e-003	0.0888	0.1083	1.9000e-004	5.3100e-003	1.4800e-003	6.7900e-003	1.5200e-003	1.3600e-003	2.8700e-003			17.2320	1.4000e-004	0.0000	17.2349
Worker	0.0481	0.0705	0.7325	1.4600e-003	0.1185	1.0600e-003	0.1196	0.0315	9.7000e-004	0.0324			114.9867	6.4900e-003	0.0000	115.1231
<b>Total</b>	<b>0.0568</b>	<b>0.1593</b>	<b>0.8408</b>	<b>1.6500e-003</b>	<b>0.1238</b>	<b>2.5400e-003</b>	<b>0.1263</b>	<b>0.0330</b>	<b>2.3300e-003</b>	<b>0.0353</b>			<b>132.2187</b>	<b>6.6300e-003</b>	<b>0.0000</b>	<b>132.3579</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	0.0231	0.1002	1.2624	2.0600e-003		3.0800e-003	3.0800e-003		3.0800e-003	3.0800e-003			189.0874	0.0467	0.0000	190.0688
<b>Total</b>	<b>0.0231</b>	<b>0.1002</b>	<b>1.2624</b>	<b>2.0600e-003</b>		<b>3.0800e-003</b>	<b>3.0800e-003</b>		<b>3.0800e-003</b>	<b>3.0800e-003</b>			<b>189.0874</b>	<b>0.0467</b>	<b>0.0000</b>	<b>190.0688</b>

#### 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
Vendor	8.7100e-003	0.0888	0.1083	1.9000e-004	5.3100e-003	1.4800e-003	6.7900e-003	1.5200e-003	1.3600e-003	2.8700e-003			17.2320	1.4000e-004	0.0000	17.2349
Worker	0.0481	0.0705	0.7325	1.4600e-003	0.1185	1.0600e-003	0.1196	0.0315	9.7000e-004	0.0324			114.9867	6.4900e-003	0.0000	115.1231
<b>Total</b>	<b>0.0568</b>	<b>0.1593</b>	<b>0.8408</b>	<b>1.6500e-003</b>	<b>0.1238</b>	<b>2.5400e-003</b>	<b>0.1263</b>	<b>0.0330</b>	<b>2.3300e-003</b>	<b>0.0353</b>			<b>132.2187</b>	<b>6.6300e-003</b>	<b>0.0000</b>	<b>132.3579</b>

### 3.5 Hotel Construction - 2016

#### 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	0.0157	0.1478	0.0880	1.3000e-004		9.7000e-003	9.7000e-003		9.0800e-003	9.0800e-003			12.1584	3.0000e-003	0.0000	12.2214
<b>Total</b>	<b>0.0157</b>	<b>0.1478</b>	<b>0.0880</b>	<b>1.3000e-004</b>		<b>9.7000e-003</b>	<b>9.7000e-003</b>		<b>9.0800e-003</b>	<b>9.0800e-003</b>			<b>12.1584</b>	<b>3.0000e-003</b>	<b>0.0000</b>	<b>12.2214</b>

**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
Vendor	5.0000e-004	5.0800e-003	6.5300e-003	1.0000e-005	3.4000e-004	8.0000e-005	4.2000e-004	1.0000e-004	7.0000e-005	1.7000e-004			1.1046	1.0000e-005	0.0000	1.1048
Worker	2.8100e-003	4.1200e-003	0.0429	9.0000e-005	7.6800e-003	7.0000e-005	7.7500e-003	2.0400e-003	6.0000e-005	2.1000e-003			7.1953	3.9000e-004	0.0000	7.2034
<b>Total</b>	<b>3.3100e-003</b>	<b>9.2000e-003</b>	<b>0.0494</b>	<b>1.0000e-004</b>	<b>8.0200e-003</b>	<b>1.5000e-004</b>	<b>8.1700e-003</b>	<b>2.1400e-003</b>	<b>1.3000e-004</b>	<b>2.2700e-003</b>			<b>8.2999</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>8.3082</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	1.5000e-003	6.5000e-003	0.0818	1.3000e-004		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004			12.1584	3.0000e-003	0.0000	12.2214
<b>Total</b>	<b>1.5000e-003</b>	<b>6.5000e-003</b>	<b>0.0818</b>	<b>1.3000e-004</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>			<b>12.1584</b>	<b>3.0000e-003</b>	<b>0.0000</b>	<b>12.2214</b>

**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
Vendor	5.0000e-004	5.0800e-003	6.5300e-003	1.0000e-005	3.4000e-004	8.0000e-005	4.2000e-004	1.0000e-004	7.0000e-005	1.7000e-004			1.1046	1.0000e-005	0.0000	1.1048
Worker	2.8100e-003	4.1200e-003	0.0429	9.0000e-005	7.6800e-003	7.0000e-005	7.7500e-003	2.0400e-003	6.0000e-005	2.1000e-003			7.1953	3.9000e-004	0.0000	7.2034
<b>Total</b>	<b>3.3100e-003</b>	<b>9.2000e-003</b>	<b>0.0494</b>	<b>1.0000e-004</b>	<b>8.0200e-003</b>	<b>1.5000e-004</b>	<b>8.1700e-003</b>	<b>2.1400e-003</b>	<b>1.3000e-004</b>	<b>2.2700e-003</b>			<b>8.2999</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>8.3082</b>

**3.6 Residential Grading - 2015**

**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					0.0911	0.0000	0.0911	0.0459	0.0000	0.0459			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0525	0.5650	0.3738	4.3000e-004		0.0311	0.0311		0.0286	0.0286			41.1142	0.0123	0.0000	41.3719
<b>Total</b>	<b>0.0525</b>	<b>0.5650</b>	<b>0.3738</b>	<b>4.3000e-004</b>	<b>0.0911</b>	<b>0.0311</b>	<b>0.1222</b>	<b>0.0459</b>	<b>0.0286</b>	<b>0.0744</b>			<b>41.1142</b>	<b>0.0123</b>	<b>0.0000</b>	<b>41.3719</b>

**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	0.0418	0.5190	0.5646	1.1200e-003	0.0253	8.0200e-003	0.0333	6.9300e-003	7.3800e-003	0.0143			102.7695	8.7000e-004	0.0000	102.7878
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	9.0000e-004	1.3200e-003	0.0137	3.0000e-005	2.2200e-003	2.0000e-005	2.2400e-003	5.9000e-004	2.0000e-005	6.1000e-004			2.1560	1.2000e-004	0.0000	2.1586
<b>Total</b>	<b>0.0427</b>	<b>0.5204</b>	<b>0.5783</b>	<b>1.1500e-003</b>	<b>0.0275</b>	<b>8.0400e-003</b>	<b>0.0355</b>	<b>7.5200e-003</b>	<b>7.4000e-003</b>	<b>0.0149</b>			<b>104.9255</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>104.9464</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					0.0911	0.0000	0.0911	0.0459	0.0000	0.0459			0.0000	0.0000	0.0000	0.0000
Off-Road	5.2600e-003	0.0228	0.2880	4.3000e-004		7.0000e-004	7.0000e-004		7.0000e-004	7.0000e-004			41.1141	0.0123	0.0000	41.3719
<b>Total</b>	<b>5.2600e-003</b>	<b>0.0228</b>	<b>0.2880</b>	<b>4.3000e-004</b>	<b>0.0911</b>	<b>7.0000e-004</b>	<b>0.0918</b>	<b>0.0459</b>	<b>7.0000e-004</b>	<b>0.0466</b>			<b>41.1141</b>	<b>0.0123</b>	<b>0.0000</b>	<b>41.3719</b>

**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	0.0418	0.5190	0.5646	1.1200e-003	0.0253	8.0200e-003	0.0333	6.9300e-003	7.3800e-003	0.0143			102.7695	8.7000e-004	0.0000	102.7878
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	9.0000e-004	1.3200e-003	0.0137	3.0000e-005	2.2200e-003	2.0000e-005	2.2400e-003	5.9000e-004	2.0000e-005	6.1000e-004			2.1560	1.2000e-004	0.0000	2.1586
<b>Total</b>	<b>0.0427</b>	<b>0.5204</b>	<b>0.5783</b>	<b>1.1500e-003</b>	<b>0.0275</b>	<b>8.0400e-003</b>	<b>0.0355</b>	<b>7.5200e-003</b>	<b>7.4000e-003</b>	<b>0.0149</b>			<b>104.9255</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>104.9464</b>

**3.7 Retail Construction - 2015**

**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	0.3058	2.4583	1.5712	2.3200e-003		0.1738	0.1738		0.1648	0.1648			208.0419	0.0474	0.0000	209.0366
<b>Total</b>	<b>0.3058</b>	<b>2.4583</b>	<b>1.5712</b>	<b>2.3200e-003</b>		<b>0.1738</b>	<b>0.1738</b>		<b>0.1648</b>	<b>0.1648</b>			<b>208.0419</b>	<b>0.0474</b>	<b>0.0000</b>	<b>209.0366</b>

**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
Vendor	5.7700e-003	0.0588	0.0717	1.2000e-004	3.5200e-003	9.8000e-004	4.5000e-003	1.0000e-003	9.0000e-004	1.9000e-003			11.4082	9.0000e-005	0.0000	11.4101
Worker	0.0271	0.0397	0.4122	8.2000e-004	0.0667	6.0000e-004	0.0673	0.0177	5.5000e-004	0.0183			64.7066	3.6500e-003	0.0000	64.7834
<b>Total</b>	<b>0.0329</b>	<b>0.0985</b>	<b>0.4839</b>	<b>9.4000e-004</b>	<b>0.0702</b>	<b>1.5800e-003</b>	<b>0.0718</b>	<b>0.0187</b>	<b>1.4500e-003</b>	<b>0.0202</b>			<b>76.1149</b>	<b>3.7400e-003</b>	<b>0.0000</b>	<b>76.1935</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	0.0269	0.1747	1.4624	2.3200e-003		3.3700e-003	3.3700e-003		3.3700e-003	3.3700e-003			208.0417	0.0474	0.0000	209.0363
<b>Total</b>	<b>0.0269</b>	<b>0.1747</b>	<b>1.4624</b>	<b>2.3200e-003</b>		<b>3.3700e-003</b>	<b>3.3700e-003</b>		<b>3.3700e-003</b>	<b>3.3700e-003</b>			<b>208.0417</b>	<b>0.0474</b>	<b>0.0000</b>	<b>209.0363</b>

**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
Vendor	5.7700e-003	0.0588	0.0717	1.2000e-004	3.5200e-003	8.8000e-004	4.5000e-003	1.0000e-003	9.0000e-004	1.9000e-003			11.4082	9.0000e-005	0.0000	11.4101
Worker	0.0271	0.0397	0.4122	8.2000e-004	0.0667	6.0000e-004	0.0673	0.0177	5.5000e-004	0.0183			64.7066	3.6500e-003	0.0000	64.7834
<b>Total</b>	<b>0.0329</b>	<b>0.0985</b>	<b>0.4839</b>	<b>9.4000e-004</b>	<b>0.0702</b>	<b>1.5800e-003</b>	<b>0.0718</b>	<b>0.0187</b>	<b>1.4500e-003</b>	<b>0.0202</b>			<b>76.1149</b>	<b>3.7400e-003</b>	<b>0.0000</b>	<b>76.1935</b>

**3.7 Retail Construction - 2016**

**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	0.3114	2.5558	1.7044	2.5500e-003		0.1766	0.1766		0.1673	0.1673			226.9646	0.0507	0.0000	228.0302
<b>Total</b>	<b>0.3114</b>	<b>2.5558</b>	<b>1.7044</b>	<b>2.5500e-003</b>		<b>0.1766</b>	<b>0.1766</b>		<b>0.1673</b>	<b>0.1673</b>			<b>226.9646</b>	<b>0.0507</b>	<b>0.0000</b>	<b>228.0302</b>

**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
Vendor	5.5900e-003	0.0570	0.0732	1.4000e-004	3.8600e-003	8.9000e-004	4.7500e-003	1.1000e-003	8.2000e-004	1.9200e-003			12.3873	9.0000e-005	0.0000	12.3891
Worker	0.0268	0.0393	0.4087	9.0000e-004	0.0732	6.2000e-004	0.0738	0.0194	5.7000e-004	0.0200			68.5865	3.6900e-003	0.0000	68.6640
<b>Total</b>	<b>0.0323</b>	<b>0.0963</b>	<b>0.4819</b>	<b>1.0400e-003</b>	<b>0.0771</b>	<b>1.5100e-003</b>	<b>0.0786</b>	<b>0.0205</b>	<b>1.3900e-003</b>	<b>0.0219</b>			<b>80.9737</b>	<b>3.7800e-003</b>	<b>0.0000</b>	<b>81.0532</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	0.0295	0.1918	1.6056	2.5500e-003		3.7000e-003	3.7000e-003		3.7000e-003	3.7000e-003			226.9644	0.0507	0.0000	228.0299
<b>Total</b>	<b>0.0295</b>	<b>0.1918</b>	<b>1.6056</b>	<b>2.5500e-003</b>		<b>3.7000e-003</b>	<b>3.7000e-003</b>		<b>3.7000e-003</b>	<b>3.7000e-003</b>			<b>226.9644</b>	<b>0.0507</b>	<b>0.0000</b>	<b>228.0299</b>

**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
Vendor	5.5900e-003	0.0570	0.0732	1.4000e-004	3.8600e-003	8.9000e-004	4.7500e-003	1.1000e-003	8.2000e-004	1.9200e-003			12.3873	9.0000e-005	0.0000	12.3891
Worker	0.0268	0.0393	0.4087	9.0000e-004	0.0732	6.2000e-004	0.0738	0.0194	5.7000e-004	0.0200			68.5865	3.6900e-003	0.0000	68.6640
<b>Total</b>	<b>0.0323</b>	<b>0.0963</b>	<b>0.4819</b>	<b>1.0400e-003</b>	<b>0.0771</b>	<b>1.5100e-003</b>	<b>0.0786</b>	<b>0.0205</b>	<b>1.3900e-003</b>	<b>0.0219</b>			<b>80.9737</b>	<b>3.7800e-003</b>	<b>0.0000</b>	<b>81.0532</b>

### 3.8 Residential Parking - 2015

#### 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	0.2480	1.9941	1.2746	1.8800e-003		0.1410	0.1410		0.1337	0.1337			168.7613	0.0384	0.0000	169.5681
<b>Total</b>	<b>0.2480</b>	<b>1.9941</b>	<b>1.2746</b>	<b>1.8800e-003</b>		<b>0.1410</b>	<b>0.1410</b>		<b>0.1337</b>	<b>0.1337</b>			<b>168.7613</b>	<b>0.0384</b>	<b>0.0000</b>	<b>169.5681</b>

#### 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
Vendor	4.6800e-003	0.0477	0.0582	1.0000e-004	2.8500e-003	7.9000e-004	3.6500e-003	8.1000e-004	7.3000e-004	1.5400e-003			9.2542	7.0000e-005	0.0000	9.2558
Worker	0.0388	0.0568	0.5900	1.1700e-003	0.0955	8.6000e-004	0.0963	0.0254	7.8000e-004	0.0261			92.6282	5.2300e-003	0.0000	92.7380
<b>Total</b>	<b>0.0434</b>	<b>0.1045</b>	<b>0.6482</b>	<b>1.2700e-003</b>	<b>0.0983</b>	<b>1.6500e-003</b>	<b>0.1000</b>	<b>0.0262</b>	<b>1.5100e-003</b>	<b>0.0277</b>			<b>101.8824</b>	<b>5.3000e-003</b>	<b>0.0000</b>	<b>101.9938</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	0.0218	0.1417	1.1863	1.8800e-003		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003			168.7611	0.0384	0.0000	169.5679
<b>Total</b>	<b>0.0218</b>	<b>0.1417</b>	<b>1.1863</b>	<b>1.8800e-003</b>		<b>2.7400e-003</b>	<b>2.7400e-003</b>		<b>2.7400e-003</b>	<b>2.7400e-003</b>			<b>168.7611</b>	<b>0.0384</b>	<b>0.0000</b>	<b>169.5679</b>

#### 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
Vendor	4.6800e-003	0.0477	0.0582	1.0000e-004	2.8500e-003	7.9000e-004	3.6500e-003	8.1000e-004	7.3000e-004	1.5400e-003			9.2542	7.0000e-005	0.0000	9.2558
Worker	0.0388	0.0568	0.5900	1.1700e-003	0.0955	8.6000e-004	0.0963	0.0254	7.8000e-004	0.0261			92.6282	5.2300e-003	0.0000	92.7380
<b>Total</b>	<b>0.0434</b>	<b>0.1045</b>	<b>0.6482</b>	<b>1.2700e-003</b>	<b>0.0983</b>	<b>1.6500e-003</b>	<b>0.1000</b>	<b>0.0262</b>	<b>1.5100e-003</b>	<b>0.0277</b>			<b>101.8824</b>	<b>5.3000e-003</b>	<b>0.0000</b>	<b>101.9938</b>

### 3.8 Residential Parking - 2016

#### 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	0.3649	2.9953	1.9975	2.9900e-003		0.2070	0.2070		0.1960	0.1960			265.9968	0.0595	0.0000	267.2456
<b>Total</b>	<b>0.3649</b>	<b>2.9953</b>	<b>1.9975</b>	<b>2.9900e-003</b>		<b>0.2070</b>	<b>0.2070</b>		<b>0.1960</b>	<b>0.1960</b>			<b>265.9968</b>	<b>0.0595</b>	<b>0.0000</b>	<b>267.2456</b>

**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
Vendor	6.5500e-003	0.0668	0.0858	1.6000e-004	4.5300e-003	1.0400e-003	5.5700e-003	1.2900e-003	9.6000e-004	2.2500e-003			14.5175	1.1000e-004	0.0000	14.5198
Worker	0.0553	0.0813	0.8452	1.8600e-003	0.1514	1.2900e-003	0.1527	0.0402	1.1900e-003	0.0414			141.8499	7.6300e-003	0.0000	142.0102
<b>Total</b>	<b>0.0619</b>	<b>0.1481</b>	<b>0.9310</b>	<b>2.0200e-003</b>	<b>0.1559</b>	<b>2.3300e-003</b>	<b>0.1583</b>	<b>0.0415</b>	<b>2.1500e-003</b>	<b>0.0436</b>			<b>156.3675</b>	<b>7.7400e-003</b>	<b>0.0000</b>	<b>156.5300</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	0.0346	0.2247	1.8817	2.9900e-003		4.3400e-003	4.3400e-003		4.3400e-003	4.3400e-003			265.9965	0.0595	0.0000	267.2452
<b>Total</b>	<b>0.0346</b>	<b>0.2247</b>	<b>1.8817</b>	<b>2.9900e-003</b>		<b>4.3400e-003</b>	<b>4.3400e-003</b>		<b>4.3400e-003</b>	<b>4.3400e-003</b>			<b>265.9965</b>	<b>0.0595</b>	<b>0.0000</b>	<b>267.2452</b>

**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
Vendor	6.5500e-003	0.0668	0.0858	1.6000e-004	4.5300e-003	1.0400e-003	5.5700e-003	1.2900e-003	9.6000e-004	2.2500e-003			14.5175	1.1000e-004	0.0000	14.5198
Worker	0.0553	0.0813	0.8452	1.8600e-003	0.1514	1.2900e-003	0.1527	0.0402	1.1900e-003	0.0414			141.8499	7.6300e-003	0.0000	142.0102
<b>Total</b>	<b>0.0619</b>	<b>0.1481</b>	<b>0.9310</b>	<b>2.0200e-003</b>	<b>0.1559</b>	<b>2.3300e-003</b>	<b>0.1583</b>	<b>0.0415</b>	<b>2.1500e-003</b>	<b>0.0436</b>			<b>156.3675</b>	<b>7.7400e-003</b>	<b>0.0000</b>	<b>156.5300</b>

**3.9 Hotel Coatings - 2016**

**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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	3.3200e-003	0.0214	0.0170	3.0000e-005		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003			2.2979	2.7000e-004	0.0000	2.3036
<b>Total</b>	<b>3.3200e-003</b>	<b>0.0214</b>	<b>0.0170</b>	<b>3.0000e-005</b>		<b>1.7700e-003</b>	<b>1.7700e-003</b>		<b>1.7700e-003</b>	<b>1.7700e-003</b>			<b>2.2979</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.3036</b>

**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
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	7.2000e-004	1.0600e-003	0.0110	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004			1.8502	1.0000e-004	0.0000	1.8523
<b>Total</b>	<b>7.2000e-004</b>	<b>1.0600e-003</b>	<b>0.0110</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>1.8502</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.8523</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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-004	1.1600e-003	0.0165	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005			2.2979	2.7000e-004	0.0000	2.3036
<b>Total</b>	<b>2.7000e-004</b>	<b>1.1600e-003</b>	<b>0.0165</b>	<b>3.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>			<b>2.2979</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.3036</b>

**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
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	7.2000e-004	1.0600e-003	0.0110	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004			1.8502	1.0000e-004	0.0000	1.8523
<b>Total</b>	<b>7.2000e-004</b>	<b>1.0600e-003</b>	<b>0.0110</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>1.8502</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.8523</b>

**3.10 On-Site Paving - 2016**

**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	0.0130	0.1334	0.0912	1.3000e-004		8.0600e-003	8.0600e-003		7.4300e-003	7.4300e-003			12.5114	3.6900e-003	0.0000	12.5889
Paving	4.0100e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0170</b>	<b>0.1334</b>	<b>0.0912</b>	<b>1.3000e-004</b>		<b>8.0600e-003</b>	<b>8.0600e-003</b>		<b>7.4300e-003</b>	<b>7.4300e-003</b>			<b>12.5114</b>	<b>3.6900e-003</b>	<b>0.0000</b>	<b>12.5889</b>

**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
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	4.7000e-004	6.9000e-004	7.1700e-003	2.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004			1.2026	6.0000e-005	0.0000	1.2040
<b>Total</b>	<b>4.7000e-004</b>	<b>6.9000e-004</b>	<b>7.1700e-003</b>	<b>2.0000e-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>1.2026</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.2040</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	1.5800e-003	6.8300e-003	0.0973	1.3000e-004		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004			12.5114	3.6900e-003	0.0000	12.5889
Paving	4.0100e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.5900e-003</b>	<b>6.8300e-003</b>	<b>0.0973</b>	<b>1.3000e-004</b>		<b>2.1000e-004</b>	<b>2.1000e-004</b>		<b>2.1000e-004</b>	<b>2.1000e-004</b>			<b>12.5114</b>	<b>3.6900e-003</b>	<b>0.0000</b>	<b>12.5889</b>

**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
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	4.7000e-004	6.9000e-004	7.1700e-003	2.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004			1.2026	6.0000e-005	0.0000	1.2040
<b>Total</b>	<b>4.7000e-004</b>	<b>6.9000e-004</b>	<b>7.1700e-003</b>	<b>2.0000e-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>1.2026</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.2040</b>

**3.11 Flair Drive Paving - 2016**

**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	3.2800e-003	0.0309	0.0213	3.0000e-005		1.9100e-003	1.9100e-003		1.7700e-003	1.7700e-003			2.8741	7.8000e-004	0.0000	2.8904
Paving	4.0100e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.2900e-003</b>	<b>0.0309</b>	<b>0.0213</b>	<b>3.0000e-005</b>		<b>1.9100e-003</b>	<b>1.9100e-003</b>		<b>1.7700e-003</b>	<b>1.7700e-003</b>			<b>2.8741</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>2.8904</b>

**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
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	1.8000e-004	2.6000e-004	2.7600e-003	1.0000e-005	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004			0.4626	2.0000e-005	0.0000	0.4631
<b>Total</b>	<b>1.8000e-004</b>	<b>2.6000e-004</b>	<b>2.7600e-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>0.4626</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4631</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	3.1000e-004	1.3600e-003	0.0194	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005			2.8741	7.8000e-004	0.0000	2.8904
Paving	4.0100e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>4.3200e-003</b>	<b>1.3600e-003</b>	<b>0.0194</b>	<b>3.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>			<b>2.8741</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>2.8904</b>

**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
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	1.8000e-004	2.6000e-004	2.7600e-003	1.0000e-005	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004			0.4626	2.0000e-005	0.0000	0.4631
<b>Total</b>	<b>1.8000e-004</b>	<b>2.6000e-004</b>	<b>2.7600e-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>0.4626</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4631</b>

### 3.12 Rio Hondo Paving - 2016

#### 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	3.2800e-003	0.0309	0.0213	3.0000e-005		1.9100e-003	1.9100e-003		1.7700e-003	1.7700e-003			2.8741	7.8000e-004	0.0000	2.8904
Paving	4.0100e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.2900e-003</b>	<b>0.0309</b>	<b>0.0213</b>	<b>3.0000e-005</b>		<b>1.9100e-003</b>	<b>1.9100e-003</b>		<b>1.7700e-003</b>	<b>1.7700e-003</b>			<b>2.8741</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>2.8904</b>

#### 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
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	1.8000e-004	2.6000e-004	2.7600e-003	1.0000e-005	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004			0.4626	2.0000e-005	0.0000	0.4631
<b>Total</b>	<b>1.8000e-004</b>	<b>2.6000e-004</b>	<b>2.7600e-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>0.4626</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4631</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	3.1000e-004	1.3600e-003	0.0194	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005			2.8741	7.8000e-004	0.0000	2.8904
Paving	4.0100e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>4.3200e-003</b>	<b>1.3600e-003</b>	<b>0.0194</b>	<b>3.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>			<b>2.8741</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>2.8904</b>

#### 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
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	1.8000e-004	2.6000e-004	2.7600e-003	1.0000e-005	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004			0.4626	2.0000e-005	0.0000	0.4631
<b>Total</b>	<b>1.8000e-004</b>	<b>2.6000e-004</b>	<b>2.7600e-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>0.4626</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4631</b>

### 3.13 Retail Coatings - 2016

#### 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	3.6800e-003	0.0237	0.0188	3.0000e-005		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003			2.5533	3.0000e-004	0.0000	2.5596
<b>Total</b>	<b>3.6800e-003</b>	<b>0.0237</b>	<b>0.0188</b>	<b>3.0000e-005</b>		<b>1.9700e-003</b>	<b>1.9700e-003</b>		<b>1.9700e-003</b>	<b>1.9700e-003</b>			<b>2.5533</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>2.5596</b>

**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
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	6.8000e-004	1.0000e-003	0.0104	2.0000e-005	1.8700e-003	2.0000e-005	1.8800e-003	5.0000e-004	1.0000e-005	5.1000e-004			1.7474	9.0000e-005	0.0000	1.7494
<b>Total</b>	<b>6.8000e-004</b>	<b>1.0000e-003</b>	<b>0.0104</b>	<b>2.0000e-005</b>	<b>1.8700e-003</b>	<b>2.0000e-005</b>	<b>1.8800e-003</b>	<b>5.0000e-004</b>	<b>1.0000e-005</b>	<b>5.1000e-004</b>			<b>1.7474</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.7494</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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	3.0000e-004	1.2900e-003	0.0183	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005			2.5533	3.0000e-004	0.0000	2.5596
<b>Total</b>	<b>3.0000e-004</b>	<b>1.2900e-003</b>	<b>0.0183</b>	<b>3.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>			<b>2.5533</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>2.5596</b>

**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
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	6.8000e-004	1.0000e-003	0.0104	2.0000e-005	1.8700e-003	2.0000e-005	1.8800e-003	5.0000e-004	1.0000e-005	5.1000e-004			1.7474	9.0000e-005	0.0000	1.7494
<b>Total</b>	<b>6.8000e-004</b>	<b>1.0000e-003</b>	<b>0.0104</b>	<b>2.0000e-005</b>	<b>1.8700e-003</b>	<b>2.0000e-005</b>	<b>1.8800e-003</b>	<b>5.0000e-004</b>	<b>1.0000e-005</b>	<b>5.1000e-004</b>			<b>1.7474</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.7494</b>

## Flair Spectrum Phase 2 Construction South Coast Air Basin, Summer

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking with Elevator	107.54	1000sqft	0.00	107,540.00	0
Apartments High Rise	600.00	Dwelling Unit	0.00	914,920.00	1045

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9	<b>Operational Year</b>	2019		
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	630.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

- Project Characteristics -
- Land Use - Adjust Schedule to Match Project
- Construction Phase - Adjust Schedule to Match Project
- Off-road Equipment - Adjust to 2.47 Acre Site Area
- Off-road Equipment -
- Off-road Equipment -
- Trips and VMT - Adjust Per Contracto Estimates
- Architectural Coating - Adjust to Residential Area

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	53,770.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	161,310.00	0.00
tblAreaCoating	Area_Nonresidential_Interior	161310	0
tblConstructionPhase	NumDays	0.00	20.00
tblConstructionPhase	NumDays	0.00	50.00
tblConstructionPhase	NumDays	0.00	370.00
tblLandUse	LandUseSquareFeet	600,000.00	914,920.00
tblLandUse	LotAcreage	2.47	0.00
tblLandUse	LotAcreage	9.68	0.00
tblLandUse	Population	1,716.00	1,045.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblTripsAndVMT	VendorTripNumber	82.00	8.00
tblTripsAndVMT	VendorTripNumber	82.00	8.00
tblTripsAndVMT	WorkerTripNumber	477.00	150.00
tblTripsAndVMT	WorkerTripNumber	477.00	150.00

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	3.9503	28.3979	29.7945	0.0533	1.7267	1.8996	3.6263	0.4589	1.8020	2.2609			4,831.1116	0.7152	0.0000	4,846.1309
2018	1.6422	12.1785	16.4396	0.0343	1.7267	0.7281	2.4548	0.4589	0.6699	1.1288			2,961.3340	0.4345	0.0000	2,970.4592
2019	358.3667	10.8785	15.5595	0.0342	1.7267	0.6245	2.3512	0.4589	0.5746	1.0335			2,876.6407	0.4294	0.0000	2,885.6571
<b>Total</b>	<b>363.9591</b>	<b>51.4548</b>	<b>61.7936</b>	<b>0.1219</b>	<b>5.1800</b>	<b>3.2523</b>	<b>8.4322</b>	<b>1.3767</b>	<b>3.0466</b>	<b>4.4233</b>			<b>10,669.0863</b>	<b>1.5791</b>	<b>0.0000</b>	<b>10,702.2472</b>

## 3.0 Construction Detail

### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Residential Parking	Building Construction	10/1/2017	12/8/2017	5	50	
2	Towers Construction	Building Construction	12/9/2017	5/10/2019	5	370	
3	ResidentialCoatings	Architectural Coating	5/11/2019	6/7/2019	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 1,852,713; Residential Outdoor: 617,571; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating)

### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Residential Parking	Cement and Mortar Mixers	1	8.00	9	0.56
Residential Parking	Cranes	1	4.00	226	0.29
Residential Parking	Forklifts	3	6.00	89	0.20
Residential Parking	Generator Sets	1	8.00	84	0.74
Residential Parking	Pumps	1	6.00	84	0.74
Residential Parking	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Residential Parking	Welders	1	8.00	46	0.45
Towers Construction	Cranes	1	4.00	226	0.29
Towers Construction	Forklifts	2	6.00	89	0.20
Towers Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
ResidentialCoatings	Air Compressors	1	6.00	78	0.48

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class	
Residential Parking		11	150.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Towers Construction		5	150.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
ResidentialCoatings		1	95.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 3.2 Residential Parking - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3277	27.0600	20.2385	0.0304		1.8761	1.8761		1.7803	1.7803			2,943.2916	0.6296		2,956.5126
<b>Total</b>	<b>3.3277</b>	<b>27.0600</b>	<b>20.2385</b>	<b>0.0304</b>		<b>1.8761</b>	<b>1.8761</b>		<b>1.7803</b>	<b>1.7803</b>			<b>2,943.2916</b>	<b>0.6296</b>		<b>2,956.5126</b>

#### 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
Vendor	0.0613	0.6326	0.7505	1.7400e-003	0.0500	0.0101	0.0601	0.0142	9.2600e-003	0.0235			171.7337	1.2100e-003		171.7592
Worker	0.5614	0.7053	8.8055	0.0212	1.6767	0.0135	1.6901	0.4447	0.0124	0.4571			1,716.0863	0.0844		1,717.8591
<b>Total</b>	<b>0.6226</b>	<b>1.3379</b>	<b>9.5560</b>	<b>0.0230</b>	<b>1.7267</b>	<b>0.0236</b>	<b>1.7502</b>	<b>0.4589</b>	<b>0.0217</b>	<b>0.4806</b>			<b>1,887.8200</b>	<b>0.0856</b>		<b>1,889.6183</b>

### 3.3 Towers Construction - 2017

#### 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	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869			1,159.5310	0.3553		1,166.9919
<b>Total</b>	<b>1.2740</b>	<b>12.6738</b>	<b>8.0395</b>	<b>0.0113</b>		<b>0.8553</b>	<b>0.8553</b>		<b>0.7869</b>	<b>0.7869</b>			<b>1,159.5310</b>	<b>0.3553</b>		<b>1,166.9919</b>

#### 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
Vendor	0.0613	0.6326	0.7505	1.7400e-003	0.0500	0.0101	0.0601	0.0142	9.2600e-003	0.0235			171.7337	1.2100e-003		171.7592
Worker	0.5614	0.7053	8.8055	0.0212	1.6767	0.0135	1.6901	0.4447	0.0124	0.4571			1,716.0863	0.0844		1,717.8591
<b>Total</b>	<b>0.6226</b>	<b>1.3379</b>	<b>9.5560</b>	<b>0.0230</b>	<b>1.7267</b>	<b>0.0236</b>	<b>1.7502</b>	<b>0.4589</b>	<b>0.0217</b>	<b>0.4806</b>			<b>1,887.8200</b>	<b>0.0856</b>		<b>1,889.6183</b>

### 3.3 Towers Construction - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0786	10.9578	7.7239	0.0113		0.7055	0.7055		0.6491	0.6491			1,140.2487	0.3550		1,147.7032
<b>Total</b>	<b>1.0786</b>	<b>10.9578</b>	<b>7.7239</b>	<b>0.0113</b>		<b>0.7055</b>	<b>0.7055</b>		<b>0.6491</b>	<b>0.6491</b>			<b>1,140.2487</b>	<b>0.3550</b>		<b>1,147.7032</b>

**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
Vendor	0.0575	0.5809	0.7150	1.7400e-003	0.0500	9.4900e-003	0.0595	0.0142	8.7300e-003	0.0230			168.8539	1.2000e-003		168.8792
Worker	0.5061	0.6398	8.0007	0.0212	1.6767	0.0131	1.6898	0.4447	0.0122	0.4568			1,652.2314	0.0784		1,653.8768
<b>Total</b>	<b>0.5636</b>	<b>1.2207</b>	<b>8.7157</b>	<b>0.0230</b>	<b>1.7267</b>	<b>0.0226</b>	<b>1.7493</b>	<b>0.4589</b>	<b>0.0209</b>	<b>0.4798</b>			<b>1,821.0853</b>	<b>0.0796</b>		<b>1,822.7560</b>

**3.3 Towers 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	0.9521	9.7557	7.5184	0.0113		0.6026	0.6026		0.5544	0.5544			1,121.4877	0.3548		1,128.9391
<b>Total</b>	<b>0.9521</b>	<b>9.7557</b>	<b>7.5184</b>	<b>0.0113</b>		<b>0.6026</b>	<b>0.6026</b>		<b>0.5544</b>	<b>0.5544</b>			<b>1,121.4877</b>	<b>0.3548</b>		<b>1,128.9391</b>

**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
Vendor	0.0544	0.5359	0.6882	1.7300e-003	0.0500	9.0000e-003	0.0590	0.0143	8.2800e-003	0.0225			165.5636	1.1800e-003		165.5884
Worker	0.4658	0.5869	7.3530	0.0212	1.6767	0.0129	1.6895	0.4447	0.0120	0.4566			1,589.5894	0.0734		1,591.1297
<b>Total</b>	<b>0.5203</b>	<b>1.1228</b>	<b>8.0412</b>	<b>0.0229</b>	<b>1.7267</b>	<b>0.0219</b>	<b>1.7486</b>	<b>0.4589</b>	<b>0.0202</b>	<b>0.4791</b>			<b>1,755.1530</b>	<b>0.0745</b>		<b>1,756.7181</b>

**3.4 Residential Coatings - 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					
Archit. Coating	357.8052					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288			281.4481	0.0238		281.9473
<b>Total</b>	<b>358.0716</b>	<b>1.8354</b>	<b>1.8413</b>	<b>2.9700e-003</b>		<b>0.1288</b>	<b>0.1288</b>		<b>0.1288</b>	<b>0.1288</b>			<b>281.4481</b>	<b>0.0238</b>		<b>281.9473</b>

**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
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
Worker	0.2950	0.3717	4.6569	0.0134	1.0619	8.1700e-003	1.0700	0.2816	7.5700e-003	0.2892			1,006.7400	0.0465		1,007.7155
<b>Total</b>	<b>0.2950</b>	<b>0.3717</b>	<b>4.6569</b>	<b>0.0134</b>	<b>1.0619</b>	<b>8.1700e-003</b>	<b>1.0700</b>	<b>0.2816</b>	<b>7.5700e-003</b>	<b>0.2892</b>			<b>1,006.7400</b>	<b>0.0465</b>		<b>1,007.7155</b>

## Flair Spectrum Phase 2 Construction Mitigated South Coast Air Basin, Summer

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking with Elevator	107.54	1000sqft	0.00	107,540.00	0
Apartments High Rise	600.00	Dwelling Unit	0.00	914,920.00	1045

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9	<b>Operational Year</b>	2019		
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	630.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

- Project Characteristics -
- Land Use - Adjust Schedule to Match Project
- Construction Phase - Adjust Schedule to Match Project
- Off-road Equipment - Adjust to 2.47 Acre Site Area
- Off-road Equipment -
- Off-road Equipment -
- Trips and VMT - Adjust Per Contracto Estimates
- Architectural Coating - Adjust to Residential Area

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	53,770.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	161,310.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	0.00
tblAreaCoating	Area_Nonresidential_Interior	161310	0
tblConstructionPhase	NumDays	0.00	20.00
tblConstructionPhase	NumDays	0.00	50.00
tblConstructionPhase	NumDays	0.00	370.00
tblLandUse	LandUseSquareFeet	600,000.00	914,920.00
tblLandUse	LotAcreage	2.47	0.00
tblLandUse	LotAcreage	9.68	0.00
tblLandUse	Population	1,716.00	1,045.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblTripsAndVMT	VendorTripNumber	82.00	8.00
tblTripsAndVMT	VendorTripNumber	82.00	8.00
tblTripsAndVMT	WorkerTripNumber	477.00	150.00
tblTripsAndVMT	WorkerTripNumber	477.00	150.00

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### 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					
2017	3.9503	28.3979	29.7945	0.0533	1.7267	1.8996	3.6263	0.4589	1.8020	2.2609			4,831.1116	0.7152	0.0000	4,846.1309
2018	1.6422	12.1785	16.4396	0.0343	1.7267	0.7281	2.4548	0.4589	0.6699	1.1288			2,961.3340	0.4345	0.0000	2,970.4592
2019	1.4724	10.8785	15.5595	0.0342	1.7267	0.6245	2.3512	0.4589	0.5746	1.0335			2,876.6407	0.4294	0.0000	2,885.6571
<b>Total</b>	<b>7.0648</b>	<b>51.4548</b>	<b>61.7936</b>	<b>0.1219</b>	<b>5.1800</b>	<b>3.2523</b>	<b>8.4322</b>	<b>1.3767</b>	<b>3.0466</b>	<b>4.4233</b>			<b>10,669.0863</b>	<b>1.5791</b>	<b>0.0000</b>	<b>10,702.2472</b>

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Residential Parking	Building Construction	10/1/2017	12/8/2017	5	50	
2	Towers Construction	Building Construction	12/9/2017	5/10/2019	5	370	
3	ResidentialCoatings	Architectural Coating	5/11/2019	6/7/2019	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 1,852,713; Residential Outdoor: 617,571; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Residential Parking	Cement and Mortar Mixers	1	8.00	9	0.56
Residential Parking	Cranes	1	4.00	226	0.29
Residential Parking	Forklifts	3	6.00	89	0.20
Residential Parking	Generator Sets	1	8.00	84	0.74
Residential Parking	Pumps	1	6.00	84	0.74
Residential Parking	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Residential Parking	Welders	1	8.00	46	0.45
Towers Construction	Cranes	1	4.00	226	0.29
Towers Construction	Forklifts	2	6.00	89	0.20
Towers Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
ResidentialCoatings	Air Compressors	1	6.00	78	0.48

#### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Residential Parking	11	150.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Towers Construction	5	150.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
ResidentialCoatings	1	95.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

#### 3.2 Residential Parking - 2017

##### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3277	27.0600	20.2385	0.0304		1.8761	1.8761		1.7803	1.7803			2,943.2916	0.6296		2,956.5126
<b>Total</b>	<b>3.3277</b>	<b>27.0600</b>	<b>20.2385</b>	<b>0.0304</b>		<b>1.8761</b>	<b>1.8761</b>		<b>1.7803</b>	<b>1.7803</b>			<b>2,943.2916</b>	<b>0.6296</b>		<b>2,956.5126</b>

##### 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
Vendor	0.0613	0.6326	0.7505	1.7400e-003	0.0500	0.0101	0.0601	0.0142	9.2600e-003	0.0235			171.7337	1.2100e-003		171.7592
Worker	0.5614	0.7053	8.8055	0.0212	1.6767	0.0135	1.6901	0.4447	0.0124	0.4571			1,716.0863	0.0844		1,717.8591
<b>Total</b>	<b>0.6226</b>	<b>1.3379</b>	<b>9.5560</b>	<b>0.0230</b>	<b>1.7267</b>	<b>0.0236</b>	<b>1.7502</b>	<b>0.4589</b>	<b>0.0217</b>	<b>0.4806</b>			<b>1,887.8200</b>	<b>0.0856</b>		<b>1,889.6183</b>

### 3.3 Towers Construction - 2017

##### 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	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869			1,159.5310	0.3553		1,166.9919
<b>Total</b>	<b>1.2740</b>	<b>12.6738</b>	<b>8.0395</b>	<b>0.0113</b>		<b>0.8553</b>	<b>0.8553</b>		<b>0.7869</b>	<b>0.7869</b>			<b>1,159.5310</b>	<b>0.3553</b>		<b>1,166.9919</b>

##### 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
Vendor	0.0613	0.6326	0.7505	1.7400e-003	0.0500	0.0101	0.0601	0.0142	9.2600e-003	0.0235			171.7337	1.2100e-003		171.7592
Worker	0.5614	0.7053	8.8055	0.0212	1.6767	0.0135	1.6901	0.4447	0.0124	0.4571			1,716.0863	0.0844		1,717.8591
<b>Total</b>	<b>0.6226</b>	<b>1.3379</b>	<b>9.5560</b>	<b>0.0230</b>	<b>1.7267</b>	<b>0.0236</b>	<b>1.7502</b>	<b>0.4589</b>	<b>0.0217</b>	<b>0.4806</b>			<b>1,887.8200</b>	<b>0.0856</b>		<b>1,889.6183</b>

### 3.3 Towers Construction - 2018

#### 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	1.0786	10.9578	7.7239	0.0113		0.7055	0.7055		0.6491	0.6491			1,140.2487	0.3550		1,147.7032
<b>Total</b>	<b>1.0786</b>	<b>10.9578</b>	<b>7.7239</b>	<b>0.0113</b>		<b>0.7055</b>	<b>0.7055</b>		<b>0.6491</b>	<b>0.6491</b>			<b>1,140.2487</b>	<b>0.3550</b>		<b>1,147.7032</b>

#### 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
Vendor	0.0575	0.5809	0.7150	1.7400e-003	0.0500	9.4900e-003	0.0595	0.0142	8.7300e-003	0.0230			168.8539	1.2000e-003		168.8792
Worker	0.5061	0.6398	8.0007	0.0212	1.6767	0.0131	1.6898	0.4447	0.0122	0.4568			1,652.2314	0.0784		1,653.8768
<b>Total</b>	<b>0.5636</b>	<b>1.2207</b>	<b>8.7157</b>	<b>0.0230</b>	<b>1.7267</b>	<b>0.0226</b>	<b>1.7493</b>	<b>0.4589</b>	<b>0.0209</b>	<b>0.4798</b>			<b>1,821.0853</b>	<b>0.0796</b>		<b>1,822.7560</b>

### 3.3 Towers Construction - 2019

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9521	9.7557	7.5184	0.0113		0.6026	0.6026		0.5544	0.5544			1,121.4877	0.3548		1,128.9391
<b>Total</b>	<b>0.9521</b>	<b>9.7557</b>	<b>7.5184</b>	<b>0.0113</b>		<b>0.6026</b>	<b>0.6026</b>		<b>0.5544</b>	<b>0.5544</b>			<b>1,121.4877</b>	<b>0.3548</b>		<b>1,128.9391</b>

#### 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
Vendor	0.0544	0.5359	0.6882	1.7300e-003	0.0500	9.0000e-003	0.0590	0.0143	8.2800e-003	0.0225			165.5636	1.1800e-003		165.5884
Worker	0.4658	0.5869	7.3530	0.0212	1.6767	0.0129	1.6895	0.4447	0.0120	0.4566			1,589.5894	0.0734		1,591.1297
<b>Total</b>	<b>0.5203</b>	<b>1.1228</b>	<b>8.0412</b>	<b>0.0229</b>	<b>1.7267</b>	<b>0.0219</b>	<b>1.7486</b>	<b>0.4589</b>	<b>0.0202</b>	<b>0.4791</b>			<b>1,755.1530</b>	<b>0.0745</b>		<b>1,756.7181</b>

### 3.4 Residential Coatings - 2019

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288			281.4481	0.0238		281.9473
<b>Total</b>	<b>0.2664</b>	<b>1.8354</b>	<b>1.8413</b>	<b>2.9700e-003</b>		<b>0.1288</b>	<b>0.1288</b>		<b>0.1288</b>	<b>0.1288</b>			<b>281.4481</b>	<b>0.0238</b>		<b>281.9473</b>

#### 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
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
Worker	0.2950	0.3717	4.6569	0.0134	1.0619	8.1700e-003	1.0700	0.2816	7.5700e-003	0.2892			1,006.7400	0.0465		1,007.7155
<b>Total</b>	<b>0.2950</b>	<b>0.3717</b>	<b>4.6569</b>	<b>0.0134</b>	<b>1.0619</b>	<b>8.1700e-003</b>	<b>1.0700</b>	<b>0.2816</b>	<b>7.5700e-003</b>	<b>0.2892</b>			<b>1,006.7400</b>	<b>0.0465</b>		<b>1,007.7155</b>

## Flair Spectrum Phase 2 Construction South Coast Air Basin, Winter

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking with Elevator	107.54	1000sqft	0.00	107,540.00	0
Apartments High Rise	600.00	Dwelling Unit	0.00	914,920.00	1045

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9	<b>Operational Year</b>	2019		
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	630.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

- Project Characteristics -
- Land Use - Adjust Schedule to Match Project
- Construction Phase - Adjust Schedule to Match Project
- Off-road Equipment - Adjust to 2.47 Acre Site Area
- Off-road Equipment -
- Off-road Equipment -
- Trips and VMT - Adjust Per Contracto Estimates
- Architectural Coating - Adjust to Residential Area

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	53,770.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	161,310.00	0.00
tblAreaCoating	Area_Nonresidential_Interior	161310	0
tblConstructionPhase	NumDays	0.00	20.00
tblConstructionPhase	NumDays	0.00	50.00
tblConstructionPhase	NumDays	0.00	370.00
tblLandUse	LandUseSquareFeet	600,000.00	914,920.00
tblLandUse	LotAcreage	2.47	0.00
tblLandUse	LotAcreage	9.68	0.00
tblLandUse	Population	1,716.00	1,045.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblTripsAndVMT	VendorTripNumber	82.00	8.00
tblTripsAndVMT	VendorTripNumber	82.00	8.00
tblTripsAndVMT	WorkerTripNumber	477.00	150.00
tblTripsAndVMT	WorkerTripNumber	477.00	150.00

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	3.9672	28.4827	29.2360	0.0520	1.7267	1.8997	3.6264	0.4589	1.8021	2.2610			4,722.8515	0.7152	0.0000	4,737.8716
2018	1.6562	12.2552	15.9164	0.0329	1.7267	0.7282	2.4549	0.4589	0.6700	1.1289			2,856.8589	0.4346	0.0000	2,865.9849
2019	358.3716	10.9484	15.0709	0.0329	1.7267	0.6246	2.3513	0.4589	0.5747	1.0336			2,775.8515	0.4294	0.0000	2,784.8687
<b>Total</b>	<b>363.9949</b>	<b>51.6862</b>	<b>60.2233</b>	<b>0.1178</b>	<b>5.1800</b>	<b>3.2525</b>	<b>8.4325</b>	<b>1.3767</b>	<b>3.0468</b>	<b>4.4235</b>			<b>10,355.5618</b>	<b>1.5792</b>	<b>0.0000</b>	<b>10,388.7252</b>

## 3.0 Construction Detail

### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Residential Parking	Building Construction	10/1/2017	12/8/2017	5	50	
2	Towers Construction	Building Construction	12/9/2017	5/10/2019	5	370	
3	ResidentialCoatings	Architectural Coating	5/11/2019	6/7/2019	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 1,852,713; Residential Outdoor: 617,571; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating)

### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Residential Parking	Cement and Mortar Mixers	1	8.00	9	0.56
Residential Parking	Cranes	1	4.00	226	0.29
Residential Parking	Forklifts	3	6.00	89	0.20
Residential Parking	Generator Sets	1	8.00	84	0.74
Residential Parking	Pumps	1	6.00	84	0.74
Residential Parking	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Residential Parking	Welders	1	8.00	46	0.45
Towers Construction	Cranes	1	4.00	226	0.29
Towers Construction	Forklifts	2	6.00	89	0.20
Towers Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
ResidentialCoatings	Air Compressors	1	6.00	78	0.48

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Residential Parking	11	150.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Towers Construction	5	150.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
ResidentialCoatings	1	95.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 3.2 Residential Parking - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3277	27.0600	20.2385	0.0304		1.8761	1.8761		1.7803	1.7803			2,943.2916	0.6296		2,956.5126
<b>Total</b>	<b>3.3277</b>	<b>27.0600</b>	<b>20.2385</b>	<b>0.0304</b>		<b>1.8761</b>	<b>1.8761</b>		<b>1.7803</b>	<b>1.7803</b>			<b>2,943.2916</b>	<b>0.6296</b>		<b>2,956.5126</b>

#### 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
Vendor	0.0669	0.6482	0.9093	1.7300e-003	0.0500	0.0102	0.0602	0.0142	9.3500e-003	0.0236			170.2911	1.2500e-003		170.3173
Worker	0.5726	0.7745	8.0883	0.0199	1.6767	0.0135	1.6901	0.4447	0.0124	0.4571			1,609.2688	0.0844		1,611.0416
<b>Total</b>	<b>0.6395</b>	<b>1.4227</b>	<b>8.9976</b>	<b>0.0216</b>	<b>1.7267</b>	<b>0.0237</b>	<b>1.7503</b>	<b>0.4589</b>	<b>0.0218</b>	<b>0.4807</b>			<b>1,779.5599</b>	<b>0.0857</b>		<b>1,781.3590</b>

### 3.3 Towers Construction - 2017

#### 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	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869			1,159.5310	0.3553		1,166.9919
<b>Total</b>	<b>1.2740</b>	<b>12.6738</b>	<b>8.0395</b>	<b>0.0113</b>		<b>0.8553</b>	<b>0.8553</b>		<b>0.7869</b>	<b>0.7869</b>			<b>1,159.5310</b>	<b>0.3553</b>		<b>1,166.9919</b>

#### 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
Vendor	0.0669	0.6482	0.9093	1.7300e-003	0.0500	0.0102	0.0602	0.0142	9.3500e-003	0.0236			170.2911	1.2500e-003		170.3173
Worker	0.5726	0.7745	8.0883	0.0199	1.6767	0.0135	1.6901	0.4447	0.0124	0.4571			1,609.2688	0.0844		1,611.0416
<b>Total</b>	<b>0.6395</b>	<b>1.4227</b>	<b>8.9976</b>	<b>0.0216</b>	<b>1.7267</b>	<b>0.0237</b>	<b>1.7503</b>	<b>0.4589</b>	<b>0.0218</b>	<b>0.4807</b>			<b>1,779.5599</b>	<b>0.0857</b>		<b>1,781.3590</b>

### 3.3 Towers Construction - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0786	10.9578	7.7239	0.0113		0.7055	0.7055		0.6491	0.6491			1,140.2487	0.3550		1,147.7032
<b>Total</b>	<b>1.0786</b>	<b>10.9578</b>	<b>7.7239</b>	<b>0.0113</b>		<b>0.7055</b>	<b>0.7055</b>		<b>0.6491</b>	<b>0.6491</b>			<b>1,140.2487</b>	<b>0.3550</b>		<b>1,147.7032</b>

**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
Vendor	0.0626	0.5950	0.8725	1.7200e-003	0.0500	9.5800e-003	0.0596	0.0142	8.8100e-003	0.0231			167.4325	1.2400e-003		167.4586
Worker	0.5150	0.7024	7.3200	0.0199	1.6767	0.0131	1.6898	0.4447	0.0122	0.4568			1,549.1777	0.0784		1,550.8232
<b>Total</b>	<b>0.5776</b>	<b>1.2974</b>	<b>8.1925</b>	<b>0.0216</b>	<b>1.7267</b>	<b>0.0227</b>	<b>1.7494</b>	<b>0.4589</b>	<b>0.0210</b>	<b>0.4799</b>			<b>1,716.6102</b>	<b>0.0796</b>		<b>1,718.2817</b>

**3.3 Towers 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	0.9521	9.7557	7.5184	0.0113		0.6026	0.6026		0.5544	0.5544			1,121.4877	0.3548		1,128.9391
<b>Total</b>	<b>0.9521</b>	<b>9.7557</b>	<b>7.5184</b>	<b>0.0113</b>		<b>0.6026</b>	<b>0.6026</b>		<b>0.5544</b>	<b>0.5544</b>			<b>1,121.4877</b>	<b>0.3548</b>		<b>1,128.9391</b>

**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
Vendor	0.0591	0.5486	0.8439	1.7200e-003	0.0500	9.0900e-003	0.0591	0.0143	8.3600e-003	0.0226			164.1635	1.2200e-003		164.1891
Worker	0.4736	0.6441	6.7087	0.0198	1.6767	0.0129	1.6895	0.4447	0.0120	0.4566			1,490.2003	0.0734		1,491.7406
<b>Total</b>	<b>0.5327</b>	<b>1.1927</b>	<b>7.5525</b>	<b>0.0216</b>	<b>1.7267</b>	<b>0.0220</b>	<b>1.7486</b>	<b>0.4589</b>	<b>0.0203</b>	<b>0.4792</b>			<b>1,654.3638</b>	<b>0.0746</b>		<b>1,655.9297</b>

**3.4 Residential Coatings - 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					
Archit. Coating	357.8052					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288			281.4481	0.0238		281.9473
<b>Total</b>	<b>358.0716</b>	<b>1.8354</b>	<b>1.8413</b>	<b>2.9700e-003</b>		<b>0.1288</b>	<b>0.1288</b>		<b>0.1288</b>	<b>0.1288</b>			<b>281.4481</b>	<b>0.0238</b>		<b>281.9473</b>

**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
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
Worker	0.2999	0.4079	4.2488	0.0126	1.0619	8.1700e-003	1.0700	0.2816	7.5700e-003	0.2892			943.7935	0.0465		944.7690
<b>Total</b>	<b>0.2999</b>	<b>0.4079</b>	<b>4.2488</b>	<b>0.0126</b>	<b>1.0619</b>	<b>8.1700e-003</b>	<b>1.0700</b>	<b>0.2816</b>	<b>7.5700e-003</b>	<b>0.2892</b>			<b>943.7935</b>	<b>0.0465</b>		<b>944.7690</b>

## Flair Spectrum Phase 2 Construction South Coast Air Basin, Winter

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking with Elevator	107.54	1000sqft	0.00	107,540.00	0
Apartments High Rise	600.00	Dwelling Unit	0.00	914,920.00	1045

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9	<b>Operational Year</b>		2019	
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	630.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

- Project Characteristics -
- Land Use - Adjust Schedule to Match Project
- Construction Phase - Adjust Schedule to Match Project
- Off-road Equipment - Adjust to 2.47 Acre Site Area
- Off-road Equipment -
- Off-road Equipment -
- Trips and VMT - Adjust Per Contracto Estimates
- Architectural Coating - Adjust to Residential Area

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	53,770.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	161,310.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	0.00
tblAreaCoating	Area_Nonresidential_Interior	161310	0
tblConstructionPhase	NumDays	0.00	20.00
tblConstructionPhase	NumDays	0.00	50.00
tblConstructionPhase	NumDays	0.00	370.00
tblLandUse	LandUseSquareFeet	600,000.00	914,920.00
tblLandUse	LotAcreage	2.47	0.00
tblLandUse	LotAcreage	9.68	0.00
tblLandUse	Population	1,716.00	1,045.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblTripsAndVMT	VendorTripNumber	82.00	8.00
tblTripsAndVMT	VendorTripNumber	82.00	8.00
tblTripsAndVMT	WorkerTripNumber	477.00	150.00
tblTripsAndVMT	WorkerTripNumber	477.00	150.00

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### 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				
2017	3.9672	28.4827	29.2360	0.0520	1.7267	1.8997	3.6264	0.4589	1.8021	2.2610			4,722.8515	0.7152	0.0000	4,737.8716
2018	1.6562	12.2552	15.9164	0.0329	1.7267	0.7282	2.4549	0.4589	0.6700	1.1289			2,856.8589	0.4346	0.0000	2,865.9849
2019	1.4848	10.9484	15.0709	0.0329	1.7267	0.6246	2.3513	0.4589	0.5747	1.0336			2,775.8515	0.4294	0.0000	2,784.8687
<b>Total</b>	<b>7.1082</b>	<b>51.6862</b>	<b>60.2233</b>	<b>0.1178</b>	<b>5.1800</b>	<b>3.2525</b>	<b>8.4325</b>	<b>1.3767</b>	<b>3.0468</b>	<b>4.4235</b>			<b>10,355.5618</b>	<b>1.5792</b>	<b>0.0000</b>	<b>10,388.7252</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
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

## 3.0 Construction Detail

### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Residential Parking	Building Construction	10/1/2017	12/8/2017	5	50	
2	Towers Construction	Building Construction	12/9/2017	5/10/2019	5	370	
3	ResidentialCoatings	Architectural Coating	5/11/2019	6/7/2019	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 1,852,713; Residential Outdoor: 617,571; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating)

### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Residential Parking	Cement and Mortar Mixers	1	8.00	9	0.56
Residential Parking	Cranes	1	4.00	226	0.29
Residential Parking	Forklifts	3	6.00	89	0.20
Residential Parking	Generator Sets	1	8.00	84	0.74
Residential Parking	Pumps	1	6.00	84	0.74
Residential Parking	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Residential Parking	Welders	1	8.00	46	0.45
Towers Construction	Cranes	1	4.00	226	0.29
Towers Construction	Forklifts	2	6.00	89	0.20
Towers Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
ResidentialCoatings	Air Compressors	1	6.00	78	0.48

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Residential Parking	11	150.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Towers Construction	5	150.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
ResidentialCoatings	1	95.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

#### 3.2 Residential Parking - 2017

<b>Total</b>	<b>0.6395</b>	<b>1.4227</b>	<b>8.9976</b>	<b>0.0216</b>	<b>1.7267</b>	<b>0.0237</b>	<b>1.7503</b>	<b>0.4589</b>	<b>0.0218</b>	<b>0.4807</b>			<b>1,779.5599</b>	<b>0.0857</b>		<b>1,781.3590</b>
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#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3277	27.0600	20.2385	0.0304		1.8761	1.8761		1.7803	1.7803			2,943.2916	0.6296		2,956.5126
<b>Total</b>	<b>3.3277</b>	<b>27.0600</b>	<b>20.2385</b>	<b>0.0304</b>		<b>1.8761</b>	<b>1.8761</b>		<b>1.7803</b>	<b>1.7803</b>			<b>2,943.2916</b>	<b>0.6296</b>		<b>2,956.5126</b>

#### 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
Vendor	0.0669	0.6482	0.9093	1.7300e-003	0.0500	0.0102	0.0602	0.0142	9.3500e-003	0.0236			170.2911	1.2500e-003		170.3173
Worker	0.5726	0.7745	8.0883	0.0199	1.6767	0.0135	1.6901	0.4447	0.0124	0.4571			1,609.2688	0.0844		1,611.0416
<b>Total</b>	<b>0.6395</b>	<b>1.4227</b>	<b>8.9976</b>	<b>0.0216</b>	<b>1.7267</b>	<b>0.0237</b>	<b>1.7503</b>	<b>0.4589</b>	<b>0.0218</b>	<b>0.4807</b>			<b>1,779.5599</b>	<b>0.0857</b>		<b>1,781.3590</b>

### 3.3 Towers Construction - 2017

#### 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	1.2740	12.6738	8.0395	0.0113		0.8553	0.8553		0.7869	0.7869			1,159.5310	0.3553		1,166.9919
<b>Total</b>	<b>1.2740</b>	<b>12.6738</b>	<b>8.0395</b>	<b>0.0113</b>		<b>0.8553</b>	<b>0.8553</b>		<b>0.7869</b>	<b>0.7869</b>			<b>1,159.5310</b>	<b>0.3553</b>		<b>1,166.9919</b>

#### 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
Vendor	0.0669	0.6482	0.9093	1.7300e-003	0.0500	0.0102	0.0602	0.0142	9.3500e-003	0.0236			170.2911	1.2500e-003		170.3173
Worker	0.5726	0.7745	8.0883	0.0199	1.6767	0.0135	1.6901	0.4447	0.0124	0.4571			1,609.2688	0.0844		1,611.0416
<b>Total</b>	<b>0.6395</b>	<b>1.4227</b>	<b>8.9976</b>	<b>0.0216</b>	<b>1.7267</b>	<b>0.0237</b>	<b>1.7503</b>	<b>0.4589</b>	<b>0.0218</b>	<b>0.4807</b>			<b>1,779.5599</b>	<b>0.0857</b>		<b>1,781.3590</b>

### 3.3 Towers Construction - 2018

#### 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	1.0786	10.9578	7.7239	0.0113		0.7055	0.7055		0.6491	0.6491			1,140.2487	0.3550		1,147.7032
<b>Total</b>	<b>1.0786</b>	<b>10.9578</b>	<b>7.7239</b>	<b>0.0113</b>		<b>0.7055</b>	<b>0.7055</b>		<b>0.6491</b>	<b>0.6491</b>			<b>1,140.2487</b>	<b>0.3550</b>		<b>1,147.7032</b>

**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
Vendor	0.0626	0.5950	0.8725	1.7200e-003	0.0500	9.5800e-003	0.0596	0.0142	8.8100e-003	0.0231			167.4325	1.2400e-003		167.4586
Worker	0.5150	0.7024	7.3200	0.0199	1.6767	0.0131	1.6898	0.4447	0.0122	0.4568			1,549.1777	0.0784		1,550.8232
<b>Total</b>	<b>0.5776</b>	<b>1.2974</b>	<b>8.1925</b>	<b>0.0216</b>	<b>1.7267</b>	<b>0.0227</b>	<b>1.7494</b>	<b>0.4589</b>	<b>0.0210</b>	<b>0.4799</b>			<b>1,716.6102</b>	<b>0.0796</b>		<b>1,718.2817</b>

**3.3 Towers Construction - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9521	9.7557	7.5184	0.0113		0.6026	0.6026		0.5544	0.5544			1,121.4877	0.3548		1,128.9391
<b>Total</b>	<b>0.9521</b>	<b>9.7557</b>	<b>7.5184</b>	<b>0.0113</b>		<b>0.6026</b>	<b>0.6026</b>		<b>0.5544</b>	<b>0.5544</b>			<b>1,121.4877</b>	<b>0.3548</b>		<b>1,128.9391</b>

**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
Vendor	0.0591	0.5486	0.8439	1.7200e-003	0.0500	9.0900e-003	0.0591	0.0143	8.3600e-003	0.0226			164.1635	1.2200e-003		164.1891
Worker	0.4736	0.6441	6.7087	0.0198	1.6767	0.0129	1.6895	0.4447	0.0120	0.4566			1,490.2003	0.0734		1,491.7406
<b>Total</b>	<b>0.5327</b>	<b>1.1927</b>	<b>7.5525</b>	<b>0.0216</b>	<b>1.7267</b>	<b>0.0220</b>	<b>1.7486</b>	<b>0.4589</b>	<b>0.0203</b>	<b>0.4792</b>			<b>1,654.3638</b>	<b>0.0746</b>		<b>1,655.9297</b>

**3.4 Residential Coatings - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288			281.4481	0.0238		281.9473
<b>Total</b>	<b>0.2664</b>	<b>1.8354</b>	<b>1.8413</b>	<b>2.9700e-003</b>		<b>0.1288</b>	<b>0.1288</b>		<b>0.1288</b>	<b>0.1288</b>			<b>281.4481</b>	<b>0.0238</b>		<b>281.9473</b>

**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
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
Worker	0.2999	0.4079	4.2488	0.0126	1.0619	8.1700e-003	1.0700	0.2816	7.5700e-003	0.2892			943.7935	0.0465		944.7690
<b>Total</b>	<b>0.2999</b>	<b>0.4079</b>	<b>4.2488</b>	<b>0.0126</b>	<b>1.0619</b>	<b>8.1700e-003</b>	<b>1.0700</b>	<b>0.2816</b>	<b>7.5700e-003</b>	<b>0.2892</b>			<b>943.7935</b>	<b>0.0465</b>		<b>944.7690</b>

## Flair Spectrum Phase 2 Construction South Coast Air Basin, Annual

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking with Elevator	107.54	1000sqft	0.00	107,540.00	0
Apartments High Rise	600.00	Dwelling Unit	0.00	914,920.00	1045

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9			<b>Operational Year</b>	2019
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	630.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

- Project Characteristics -
- Land Use - Adjust Schedule to Match Project
- Construction Phase - Adjust Schedule to Match Project
- Off-road Equipment - Adjust to 2.47 Acre Site Area
- Off-road Equipment -
- Off-road Equipment -
- Trips and VMT - Adjust Per Contracto Estimates
- Architectural Coating - Adjust to Residential Area

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	53,770.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	161,310.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	50.00	0.00
tblAreaCoating	Area_Nonresidential_Interior	161310	0
tblConstructionPhase	NumDays	0.00	20.00
tblConstructionPhase	NumDays	0.00	50.00
tblConstructionPhase	NumDays	0.00	370.00
tblLandUse	LandUseSquareFeet	600,000.00	914,920.00
tblLandUse	LotAcreage	2.47	0.00
tblLandUse	LotAcreage	9.68	0.00
tblLandUse	Population	1,716.00	1,045.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblTripsAndVMT	VendorTripNumber	82.00	8.00
tblTripsAndVMT	VendorTripNumber	82.00	8.00
tblTripsAndVMT	WorkerTripNumber	477.00	150.00
tblTripsAndVMT	WorkerTripNumber	477.00	150.00

## 2.0 Emissions Summary

### 2.1 Overall Construction

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.1124	0.8190	0.8644	1.5600e-003	0.0551	0.0541	0.1092	0.0147	0.0511	0.0658			127.8738	0.0192	0.0000	128.2774
2018	0.2119	1.6036	2.0982	4.3400e-003	0.2212	0.0950	0.3162	0.0589	0.0874	0.1463			341.1754	0.0515	0.0000	342.2558
2019	0.0738	0.5385	0.7774	1.7200e-003	0.0901	0.0307	0.1208	0.0240	0.0284	0.0523			130.6313	0.0189	0.0000	131.0291
<b>Total</b>	<b>0.3981</b>	<b>2.9610</b>	<b>3.7400</b>	<b>7.6200e-003</b>	<b>0.3664</b>	<b>0.1798</b>	<b>0.5462</b>	<b>0.0975</b>	<b>0.1669</b>	<b>0.2644</b>			<b>599.6805</b>	<b>0.0896</b>	<b>0.0000</b>	<b>601.5623</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					
2017	0.1124	0.8190	0.8644	1.5600e-003	0.0551	0.0541	0.1092	0.0147	0.0511	0.0658			127.8737	0.0192	0.0000	128.2773
2018	0.2119	1.6036	2.0982	4.3400e-003	0.2212	0.0950	0.3162	0.0589	0.0874	0.1463			341.1752	0.0515	0.0000	342.2556
2019	0.0738	0.5385	0.7774	1.7200e-003	0.0901	0.0307	0.1208	0.0240	0.0284	0.0523			130.6312	0.0189	0.0000	131.0291
<b>Total</b>	<b>0.3981</b>	<b>2.9610</b>	<b>3.7400</b>	<b>7.6200e-003</b>	<b>0.3664</b>	<b>0.1798</b>	<b>0.5462</b>	<b>0.0975</b>	<b>0.1669</b>	<b>0.2644</b>			<b>599.6802</b>	<b>0.0896</b>	<b>0.0000</b>	<b>601.5620</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
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

## 3.0 Construction Detail

### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Residential Parking	Building Construction	10/1/2017	12/8/2017	5	50	
2	Towers Construction	Building Construction	12/9/2017	5/10/2019	5	370	
3	Residential Coatings	Architectural Coating	5/11/2019	6/7/2019	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 1,852,713; Residential Outdoor: 617,571; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating)

### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Residential Parking	Cement and Mortar Mixers	1	8.00	9	0.56
Residential Parking	Cranes	1	4.00	226	0.29
Residential Parking	Forklifts	3	6.00	89	0.20
Residential Parking	Generator Sets	1	8.00	84	0.74
Residential Parking	Pumps	1	6.00	84	0.74
Residential Parking	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Residential Parking	Welders	1	8.00	46	0.45
Towers Construction	Cranes	1	4.00	226	0.29

Towers Construction	Forklifts	2	6.00	89	0.20
Towers Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
ResidentialCoatings	Air Compressors	1	6.00	78	0.48

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Residential Parking	11	150.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Towers Construction	5	150.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
ResidentialCoatings	1	95.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

#### 3.2 Residential Parking - 2017

#### 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	0.0832	0.6765	0.5060	7.6000e-004		0.0469	0.0469		0.0445	0.0445			66.7527	0.0143	0.0000	67.0526
<b>Total</b>	<b>0.0832</b>	<b>0.6765</b>	<b>0.5060</b>	<b>7.6000e-004</b>		<b>0.0469</b>	<b>0.0469</b>		<b>0.0445</b>	<b>0.0445</b>			<b>66.7527</b>	<b>0.0143</b>	<b>0.0000</b>	<b>67.0526</b>

#### 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
Vendor	1.6300e-003	0.0165	0.0221	4.0000e-005	1.2300e-003	2.5000e-004	1.4800e-003	3.5000e-004	2.3000e-004	5.8000e-004			3.8811	3.0000e-005	0.0000	3.8817
Worker	0.0135	0.0199	0.2072	5.1000e-004	0.0411	3.4000e-004	0.0415	0.0109	3.1000e-004	0.0112			37.0664	1.9100e-003	0.0000	37.1066
<b>Total</b>	<b>0.0151</b>	<b>0.0365</b>	<b>0.2293</b>	<b>5.5000e-004</b>	<b>0.0424</b>	<b>5.9000e-004</b>	<b>0.0430</b>	<b>0.0113</b>	<b>5.4000e-004</b>	<b>0.0118</b>			<b>40.9475</b>	<b>1.9400e-003</b>	<b>0.0000</b>	<b>40.9883</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	0.0832	0.6765	0.5060	7.6000e-004		0.0469	0.0469		0.0445	0.0445			66.7527	0.0143	0.0000	67.0525
<b>Total</b>	<b>0.0832</b>	<b>0.6765</b>	<b>0.5060</b>	<b>7.6000e-004</b>		<b>0.0469</b>	<b>0.0469</b>		<b>0.0445</b>	<b>0.0445</b>			<b>66.7527</b>	<b>0.0143</b>	<b>0.0000</b>	<b>67.0525</b>

#### 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
Vendor	1.6300e-003	0.0165	0.0221	4.0000e-005	1.2300e-003	2.5000e-004	1.4800e-003	3.5000e-004	2.3000e-004	5.8000e-004			3.8811	3.0000e-005	0.0000	3.8817
Worker	0.0135	0.0199	0.2072	5.1000e-004	0.0411	3.4000e-004	0.0415	0.0109	3.1000e-004	0.0112			37.0664	1.9100e-003	0.0000	37.1066
<b>Total</b>	<b>0.0151</b>	<b>0.0365</b>	<b>0.2293</b>	<b>5.5000e-004</b>	<b>0.0424</b>	<b>5.9000e-004</b>	<b>0.0430</b>	<b>0.0113</b>	<b>5.4000e-004</b>	<b>0.0118</b>			<b>40.9475</b>	<b>1.9400e-003</b>	<b>0.0000</b>	<b>40.9883</b>

### 3.3 Towers Construction - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.5500e-003	0.0951	0.0603	8.0000e-005		6.4200e-003	6.4200e-003		5.9000e-003	5.9000e-003			7.8893	2.4200e-003	0.0000	7.9401
<b>Total</b>	<b>9.5500e-003</b>	<b>0.0951</b>	<b>0.0603</b>	<b>8.0000e-005</b>		<b>6.4200e-003</b>	<b>6.4200e-003</b>		<b>5.9000e-003</b>	<b>5.9000e-003</b>			<b>7.8893</b>	<b>2.4200e-003</b>	<b>0.0000</b>	<b>7.9401</b>

#### 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
Vendor	4.9000e-004	4.9600e-003	6.6300e-003	1.0000e-005	3.7000e-004	8.0000e-005	4.5000e-004	1.1000e-004	7.0000e-005	1.8000e-004			1.1643	1.0000e-005	0.0000	1.1645
Worker	4.0400e-003	5.9800e-003	0.0622	1.5000e-004	0.0123	1.0000e-004	0.0124	3.2800e-003	9.0000e-005	3.3700e-003			11.1199	5.7000e-004	0.0000	11.1320
<b>Total</b>	<b>4.5300e-003</b>	<b>0.0109</b>	<b>0.0688</b>	<b>1.6000e-004</b>	<b>0.0127</b>	<b>1.8000e-004</b>	<b>0.0129</b>	<b>3.3900e-003</b>	<b>1.6000e-004</b>	<b>3.5500e-003</b>			<b>12.2842</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>12.2965</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	9.5500e-003	0.0951	0.0603	8.0000e-005		6.4200e-003	6.4200e-003		5.9000e-003	5.9000e-003			7.8893	2.4200e-003	0.0000	7.9401
<b>Total</b>	<b>9.5500e-003</b>	<b>0.0951</b>	<b>0.0603</b>	<b>8.0000e-005</b>		<b>6.4200e-003</b>	<b>6.4200e-003</b>		<b>5.9000e-003</b>	<b>5.9000e-003</b>			<b>7.8893</b>	<b>2.4200e-003</b>	<b>0.0000</b>	<b>7.9401</b>

#### 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
Vendor	4.9000e-004	4.9600e-003	6.6300e-003	1.0000e-005	3.7000e-004	8.0000e-005	4.5000e-004	1.1000e-004	7.0000e-005	1.8000e-004			1.1643	1.0000e-005	0.0000	1.1645
Worker	4.0400e-003	5.9800e-003	0.0622	1.5000e-004	0.0123	1.0000e-004	0.0124	3.2800e-003	9.0000e-005	3.3700e-003			11.1199	5.7000e-004	0.0000	11.1320
<b>Total</b>	<b>4.5300e-003</b>	<b>0.0109</b>	<b>0.0688</b>	<b>1.6000e-004</b>	<b>0.0127</b>	<b>1.8000e-004</b>	<b>0.0129</b>	<b>3.3900e-003</b>	<b>1.6000e-004</b>	<b>3.5500e-003</b>			<b>12.2842</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>12.2965</b>

### 3.3 Towers Construction - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1408	1.4300	1.0080	1.4800e-003		0.0921	0.0921		0.0847	0.0847			134.9913	0.0420	0.0000	135.8738
<b>Total</b>	<b>0.1408</b>	<b>1.4300</b>	<b>1.0080</b>	<b>1.4800e-003</b>		<b>0.0921</b>	<b>0.0921</b>		<b>0.0847</b>	<b>0.0847</b>			<b>134.9913</b>	<b>0.0420</b>	<b>0.0000</b>	<b>135.8738</b>

**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
Vendor	7.9500e-003	0.0792	0.1105	2.3000e-004	6.4300e-003	1.2400e-003	7.6700e-003	1.8300e-003	1.1400e-003	2.9800e-003			19.9195	1.4000e-004	0.0000	19.9226
Worker	0.0632	0.0944	0.9798	2.6400e-003	0.2148	1.7100e-003	0.2165	0.0570	1.5900e-003	0.0586			186.2645	9.2800e-003	0.0000	186.4594
<b>Total</b>	<b>0.0711</b>	<b>0.1736</b>	<b>1.0902</b>	<b>2.8700e-003</b>	<b>0.2212</b>	<b>2.9500e-003</b>	<b>0.2242</b>	<b>0.0589</b>	<b>2.7300e-003</b>	<b>0.0616</b>			<b>206.1841</b>	<b>9.4200e-003</b>	<b>0.0000</b>	<b>206.3819</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	0.1408	1.4300	1.0080	1.4800e-003		0.0921	0.0921		0.0847	0.0847			134.9912	0.0420	0.0000	135.8737
<b>Total</b>	<b>0.1408</b>	<b>1.4300</b>	<b>1.0080</b>	<b>1.4800e-003</b>		<b>0.0921</b>	<b>0.0921</b>		<b>0.0847</b>	<b>0.0847</b>			<b>134.9912</b>	<b>0.0420</b>	<b>0.0000</b>	<b>135.8737</b>

**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
Vendor	7.9500e-003	0.0792	0.1105	2.3000e-004	6.4300e-003	1.2400e-003	7.6700e-003	1.8300e-003	1.1400e-003	2.9800e-003			19.9195	1.4000e-004	0.0000	19.9226
Worker	0.0632	0.0944	0.9798	2.6400e-003	0.2148	1.7100e-003	0.2165	0.0570	1.5900e-003	0.0586			186.2645	9.2800e-003	0.0000	186.4594
<b>Total</b>	<b>0.0711</b>	<b>0.1736</b>	<b>1.0902</b>	<b>2.8700e-003</b>	<b>0.2212</b>	<b>2.9500e-003</b>	<b>0.2242</b>	<b>0.0589</b>	<b>2.7300e-003</b>	<b>0.0616</b>			<b>206.1841</b>	<b>9.4200e-003</b>	<b>0.0000</b>	<b>206.3819</b>

**3.3 Towers 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	0.0448	0.4585	0.3534	5.3000e-004		0.0283	0.0283		0.0261	0.0261			47.8176	0.0151	0.0000	48.1353
<b>Total</b>	<b>0.0448</b>	<b>0.4585</b>	<b>0.3534</b>	<b>5.3000e-004</b>		<b>0.0283</b>	<b>0.0283</b>		<b>0.0261</b>	<b>0.0261</b>			<b>47.8176</b>	<b>0.0151</b>	<b>0.0000</b>	<b>48.1353</b>

**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
Vendor	2.7100e-003	0.0263	0.0384	8.0000e-005	2.3100e-003	4.2000e-004	2.7400e-003	6.6000e-004	3.9000e-004	1.0500e-003			7.0342	5.0000e-005	0.0000	7.0353
Worker	0.0209	0.0312	0.3236	9.5000e-004	0.0774	6.1000e-004	0.0780	0.0205	5.6000e-004	0.0211			64.5306	3.1300e-003	0.0000	64.5963
<b>Total</b>	<b>0.0236</b>	<b>0.0575</b>	<b>0.3620</b>	<b>1.0300e-003</b>	<b>0.0797</b>	<b>1.0300e-003</b>	<b>0.0807</b>	<b>0.0212</b>	<b>9.5000e-004</b>	<b>0.0222</b>			<b>71.5648</b>	<b>3.1800e-003</b>	<b>0.0000</b>	<b>71.6315</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	0.0448	0.4585	0.3534	5.3000e-004		0.0283	0.0283		0.0261	0.0261			47.8176	0.0151	0.0000	48.1353
<b>Total</b>	<b>0.0448</b>	<b>0.4585</b>	<b>0.3534</b>	<b>5.3000e-004</b>		<b>0.0283</b>	<b>0.0283</b>		<b>0.0261</b>	<b>0.0261</b>			<b>47.8176</b>	<b>0.0151</b>	<b>0.0000</b>	<b>48.1353</b>

**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
Vendor	2.7100e-003	0.0263	0.0384	8.0000e-005	2.3100e-003	4.2000e-004	2.7400e-003	6.6000e-004	3.9000e-004	1.0500e-003			7.0342	5.0000e-005	0.0000	7.0353
Worker	0.0209	0.0312	0.3236	9.5000e-004	0.0774	6.1000e-004	0.0780	0.0205	5.6000e-004	0.0211			64.5306	3.1300e-003	0.0000	64.5963
<b>Total</b>	<b>0.0236</b>	<b>0.0575</b>	<b>0.3620</b>	<b>1.0300e-003</b>	<b>0.0797</b>	<b>1.0300e-003</b>	<b>0.0807</b>	<b>0.0212</b>	<b>9.5000e-004</b>	<b>0.0222</b>			<b>71.5648</b>	<b>3.1800e-003</b>	<b>0.0000</b>	<b>71.6315</b>

**3.4 Residential Coatings - 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					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	2.6600e-003	0.0184	0.0184	3.0000e-005		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003			2.5533	2.2000e-004	0.0000	2.5578
<b>Total</b>	<b>2.6600e-003</b>	<b>0.0184</b>	<b>0.0184</b>	<b>3.0000e-005</b>		<b>1.2900e-003</b>	<b>1.2900e-003</b>		<b>1.2900e-003</b>	<b>1.2900e-003</b>			<b>2.5533</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.5578</b>

**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
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	2.8100e-003	4.2000e-003	0.0436	1.3000e-004	0.0104	8.0000e-005	0.0105	2.7700e-003	8.0000e-005	2.8400e-003			8.6956	4.2000e-004	0.0000	8.7045
<b>Total</b>	<b>2.8100e-003</b>	<b>4.2000e-003</b>	<b>0.0436</b>	<b>1.3000e-004</b>	<b>0.0104</b>	<b>8.0000e-005</b>	<b>0.0105</b>	<b>2.7700e-003</b>	<b>8.0000e-005</b>	<b>2.8400e-003</b>			<b>8.6956</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>8.7045</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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	2.6600e-003	0.0184	0.0184	3.0000e-005		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003			2.5533	2.2000e-004	0.0000	2.5578
<b>Total</b>	<b>2.6600e-003</b>	<b>0.0184</b>	<b>0.0184</b>	<b>3.0000e-005</b>		<b>1.2900e-003</b>	<b>1.2900e-003</b>		<b>1.2900e-003</b>	<b>1.2900e-003</b>			<b>2.5533</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.5578</b>

**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
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	2.8100e-003	4.2000e-003	0.0436	1.3000e-004	0.0104	8.0000e-005	0.0105	2.7700e-003	8.0000e-005	2.8400e-003			8.6956	4.2000e-004	0.0000	8.7045
<b>Total</b>	<b>2.8100e-003</b>	<b>4.2000e-003</b>	<b>0.0436</b>	<b>1.3000e-004</b>	<b>0.0104</b>	<b>8.0000e-005</b>	<b>0.0105</b>	<b>2.7700e-003</b>	<b>8.0000e-005</b>	<b>2.8400e-003</b>			<b>8.6956</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>8.7045</b>

## Flair Spectrum Phase I Operation South Coast Air Basin, Summer

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	289.67	1000sqft	0.00	289,670.00	0
Enclosed Parking with Elevator	75.51	1000sqft	0.00	75,513.00	0
Other Non-Asphalt Surfaces	1.56	Acre	1.56	67,953.60	0
Unenclosed Parking Structure	537.70	1000sqft	2.47	537,700.00	0
Hotel	250.00	Room	0.62	189,820.00	0
Quality Restaurant	50.00	1000sqft	0.00	50,000.00	0
Regional Shopping Center	640.00	1000sqft	7.20	640,000.00	0

#### 1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9	Operational Year	2017		
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

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

- Project Characteristics -
- Land Use - Revise Default Areas to Match Project
- Construction Phase - No Construction
- Off-road Equipment -
- Trips and VMT - No Construction
- Grading -
- Architectural Coating - Coating Area Adjusted to Building Sizes
- Vehicle Trips - Trip Generation Per Traffic Study
- Note That Pass-By Trips are Included in Trip Generation Rates
- Water And Wastewater - Water Demand From Project Engineer
- Mobile Land Use Mitigation -
- Mobile Commute Mitigation -
- Area Mitigation - Use low-VOC coatings

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	925,328.00	636,848.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,775,985.00	1,910,545.00
tblAreaCoating	Area_Nonresidential_Interior	2775985	1910545
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250	0
tblLandUse	LandUseSquareFeet	75,510.00	75,513.00
tblLandUse	LandUseSquareFeet	363,000.00	189,820.00
tblLandUse	LotAcreage	6.65	0.00
tblLandUse	LotAcreage	1.73	0.00
tblLandUse	LotAcreage	12.34	2.47
tblLandUse	LotAcreage	8.33	0.62



## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	118.7914	346.2516	1,408.7463	3.6464	244.2396	5.0705	249.3101	65.2578	4.6671	69.9249			310,226.4244	11.7017		310,472.1608

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hotel	2,230.00	2,625.00	2625.00	8,277,106	8,277,106
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Quality Restaurant	4,498.00	4,718.00	4718.00	15,105,723	15,105,723
Regional Shopping Center	17,017.60	26,240.00	26240.00	67,612,361	67,612,361
Unenclosed Parking Structure	0.00	0.00	0.00		
<b>Total</b>	<b>23,745.60</b>	<b>33,583.00</b>	<b>33,583.00</b>	<b>90,995,190</b>	<b>90,995,190</b>

### 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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	100	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	100	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	100	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513125	0.060112	0.180262	0.139218	0.042100	0.006630	0.016061	0.030999	0.001941	0.002506	0.004348	0.000594	0.002104

## 5.0 Energy Detail

### 4.4 Fleet Mix

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 Unmitigated	0.5167	4.6972	3.9457	0.0282		0.3570	0.3570		0.3570	0.3570			5,636.6789	0.1080	0.1033	5,670.9828

### 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					
Hotel	13011.8	0.1403	1.2757	1.0716	7.6500e-003		0.0970	0.0970		0.0970	0.0970			1,530.7966	0.0293	0.0281	1,540.1128
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Quality Restaurant	31919.2	0.3442	3.1293	2.6286	0.0188		0.2378	0.2378		0.2378	0.2378			3,755.1974	0.0720	0.0689	3,778.0509
Regional Shopping Center	2980.82	0.0322	0.2922	0.2455	1.7500e-003		0.0222	0.0222		0.0222	0.0222			350.6849	6.7200e-003	6.4300e-003	352.8191
Unenclosed Parking Structure	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
Enclosed Parking with Elevator	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
<b>Total</b>		<b>0.5167</b>	<b>4.6972</b>	<b>3.9457</b>	<b>0.0282</b>		<b>0.3570</b>	<b>0.3570</b>		<b>0.3570</b>	<b>0.3570</b>			<b>5,636.6789</b>	<b>0.1080</b>	<b>0.1033</b>	<b>5,670.9828</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	45.6644	1.8200e-003	0.1919	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004			0.4037	1.1200e-003		0.4273

### 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	9.0029					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	36.6430					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0185	1.8200e-003	0.1919	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004			0.4037	1.1200e-003		0.4273
<b>Total</b>	<b>45.6645</b>	<b>1.8200e-003</b>	<b>0.1919</b>	<b>1.0000e-005</b>		<b>6.9000e-004</b>	<b>6.9000e-004</b>		<b>6.9000e-004</b>	<b>6.9000e-004</b>			<b>0.4037</b>	<b>1.1200e-003</b>		<b>0.4273</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 Vegetation

## Flair Spectrum Phase I Operation South Coast Air Basin, Summer

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	289.67	1000sqft	0.00	289,670.00	0
Enclosed Parking with Elevator	75.51	1000sqft	0.00	75,513.00	0
Other Non-Asphalt Surfaces	1.56	Acre	1.56	67,953.60	0
Unenclosed Parking Structure	537.70	1000sqft	2.47	537,700.00	0
Hotel	250.00	Room	0.62	189,820.00	0
Quality Restaurant	50.00	1000sqft	0.00	50,000.00	0
Regional Shopping Center	640.00	1000sqft	7.20	640,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9	<b>Operational Year</b>		2017	
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	630.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

- Project Characteristics -
- Land Use - Revise Default Areas to Match Project
- Construction Phase - No Construction
- Off-road Equipment -
- Trips and VMT - No Construction
- Grading -
- Architectural Coating - Coating Area Adjusted to Building Sizes
- Vehicle Trips - Trip Generation Per Traffic Study
- Note That Pass-By Trips are Included in Trip Generation Rates
- Water And Wastewater - Water Demand From Project Engineer
- Mobile Land Use Mitigation -
- Mobile Commute Mitigation -
- Area Mitigation - Use low-VOC coatings

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	925,328.00	636,848.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,775,985.00	1,910,545.00
tblAreaCoating	Area_Nonresidential_Interior	2775985	1910545
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250	0
tblLandUse	LandUseSquareFeet	75,510.00	75,513.00
tblLandUse	LandUseSquareFeet	363,000.00	189,820.00
tblLandUse	LotAcreage	6.65	0.00
tblLandUse	LotAcreage	1.73	0.00
tblLandUse	LotAcreage	12.34	2.47
tblLandUse	LotAcreage	8.33	0.62



## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Implement Trip Reduction Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	93.5769	264.3235	1,080.1167	2.7637	184.8262	3.8497	188.6759	49.3833	3.5433	52.9266			235,121.8890	8.8996		235,308.7813

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hotel	1,895.00	2,225.00	2,225.00	7,027,970	6,601,737
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Quality Restaurant	3,048.50	3,197.00	3,197.00	10,237,267	9,622,071
Regional Shopping Center	14,022.40	21,600.00	21,600.00	55,630,944	52,325,844
Unenclosed Parking Structure	0.00	0.00	0.00		
<b>Total</b>	<b>18,965.90</b>	<b>27,022.00</b>	<b>27,022.00</b>	<b>72,956,181</b>	<b>68,549,651</b>

### 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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	100	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	100	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	100	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513125	0.060112	0.180262	0.139218	0.042100	0.006630	0.016061	0.030999	0.001941	0.002506	0.004348	0.000594	0.002104

## 5.0 Energy Detail

### 4.4 Fleet Mix

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					
Natural Gas Mitigated	0.5167	4.6972	3.9457	0.0282		0.3570	0.3570		0.3570	0.3570			5,636.6789	0.1080	0.1033	5,670.9828

### 5.2 Energy by Land Use - Natural Gas

#### Mitigated

	Natural Gas 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					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Quality Restaurant	31.9192	0.3442	3.1293	2.6286	0.0188		0.2378	0.2378		0.2378	0.2378			3,755.1974	0.0720	0.0689	3,778.0509
Regional Shopping Center	2.98082	0.0322	0.2922	0.2455	1.7500e-003		0.0222	0.0222		0.0222	0.0222			350.6849	6.7200e-003	6.4300e-003	352.8191
Unenclosed Parking Structure	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
Enclosed Parking with Elevator	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
Hotel	13.0118	0.1403	1.2757	1.0716	7.6500e-003		0.0970	0.0970		0.0970	0.0970			1,530.7966	0.0293	0.0281	1,540.1128
<b>Total</b>		<b>0.5167</b>	<b>4.6972</b>	<b>3.9457</b>	<b>0.0282</b>		<b>0.3570</b>	<b>0.3570</b>		<b>0.3570</b>	<b>0.3570</b>			<b>5,636.6789</b>	<b>0.1080</b>	<b>0.1033</b>	<b>5,670.9828</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	36.6615	1.8200e-003	0.1919	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004			0.4037	1.1200e-003		0.4273

### 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	36.6430					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0185	1.8200e-003	0.1919	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004			0.4037	1.1200e-003		0.4273
<b>Total</b>	<b>36.6615</b>	<b>1.8200e-003</b>	<b>0.1919</b>	<b>1.0000e-005</b>		<b>6.9000e-004</b>	<b>6.9000e-004</b>		<b>6.9000e-004</b>	<b>6.9000e-004</b>			<b>0.4037</b>	<b>1.1200e-003</b>		<b>0.4273</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 Vegetation

## Flair Spectrum Phase I Operation South Coast Air Basin, Winter

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	289.67	1000sqft	0.00	289,670.00	0
Enclosed Parking with Elevator	75.51	1000sqft	0.00	75,513.00	0
Other Non-Asphalt Surfaces	1.56	Acre	1.56	67,953.60	0
Unenclosed Parking Structure	537.70	1000sqft	2.47	537,700.00	0
Hotel	250.00	Room	0.62	189,820.00	0
Quality Restaurant	50.00	1000sqft	0.00	50,000.00	0
Regional Shopping Center	640.00	1000sqft	7.20	640,000.00	0

#### 1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9	Operational Year	2017		
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

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

- Project Characteristics -
- Land Use - Revise Default Areas to Match Project
- Construction Phase - No Construction
- Off-road Equipment -
- Trips and VMT - No Construction
- Grading -
- Architectural Coating - Coating Area Adjusted to Building Sizes
- Vehicle Trips - Trip Generation Per Traffic Study
- Note That Pass-By Trips are Included in Trip Generation Rates
- Water And Wastewater - Water Demand From Project Engineer
- Mobile Land Use Mitigation -
- Mobile Commute Mitigation -
- Area Mitigation - Use low-VOC coatings

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	925,328.00	636,848.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,775,985.00	1,910,545.00
tblAreaCoating	Area_Nonresidential_Interior	2775985	1910545
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250	0
tblLandUse	LandUseSquareFeet	75,510.00	75,513.00
tblLandUse	LandUseSquareFeet	363,000.00	189,820.00
tblLandUse	LotAcreage	6.65	0.00
tblLandUse	LotAcreage	1.73	0.00
tblLandUse	LotAcreage	12.34	2.47
tblLandUse	LotAcreage	8.33	0.62



## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	122.5076	364.2044	1,380.2078	3.4628	244.2396	5.0892	249.3288	65.2578	4.6843	69.9420			295,246.8663	11.7108		295,492.7939

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hotel	2,230.00	2,625.00	2625.00	8,277,106	8,277,106
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Quality Restaurant	4,498.00	4,718.00	4718.00	15,105,723	15,105,723
Regional Shopping Center	17,017.60	26,240.00	26240.00	67,812,361	67,812,361
Unenclosed Parking Structure	0.00	0.00	0.00		
<b>Total</b>	<b>23,745.60</b>	<b>33,583.00</b>	<b>33,583.00</b>	<b>90,995,190</b>	<b>90,995,190</b>

### 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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	100	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	100	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	100	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513125	0.060112	0.180262	0.139218	0.042100	0.006630	0.016061	0.030999	0.001941	0.002506	0.004348	0.000594	0.002104

## 5.0 Energy Detail

### 4.4 Fleet Mix

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 Unmitigated	0.5167	4.6972	3.9457	0.0282		0.3570	0.3570		0.3570	0.3570			5,636.6789	0.1080	0.1033	5,670.9828

### 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					
Hotel	13011.8	0.1403	1.2757	1.0716	7.6500e-003		0.0970	0.0970		0.0970	0.0970			1,530.7966	0.0293	0.0281	1,540.1128
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Quality Restaurant	31919.2	0.3442	3.1293	2.6286	0.0188		0.2378	0.2378		0.2378	0.2378			3,755.1974	0.0720	0.0689	3,778.0509
Regional Shopping Center	2980.82	0.0322	0.2922	0.2455	1.7500e-003		0.0222	0.0222		0.0222	0.0222			350.6849	6.7200e-003	6.4300e-003	352.8191
Unenclosed Parking Structure	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
Enclosed Parking with Elevator	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
<b>Total</b>		<b>0.5167</b>	<b>4.6972</b>	<b>3.9457</b>	<b>0.0282</b>		<b>0.3570</b>	<b>0.3570</b>		<b>0.3570</b>	<b>0.3570</b>			<b>5,636.6789</b>	<b>0.1080</b>	<b>0.1033</b>	<b>5,670.9828</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	45.6644	1.8200e-003	0.1919	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004			0.4037	1.1200e-003		0.4273

### 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	9.0029					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	36.6430					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0185	1.8200e-003	0.1919	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004			0.4037	1.1200e-003		0.4273
<b>Total</b>	<b>45.6645</b>	<b>1.8200e-003</b>	<b>0.1919</b>	<b>1.0000e-005</b>		<b>6.9000e-004</b>	<b>6.9000e-004</b>		<b>6.9000e-004</b>	<b>6.9000e-004</b>			<b>0.4037</b>	<b>1.1200e-003</b>		<b>0.4273</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 Vegetation

## Flair Spectrum Phase I Operation South Coast Air Basin, Winter

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	289.67	1000sqft	0.00	289,670.00	0
Enclosed Parking with Elevator	75.51	1000sqft	0.00	75,513.00	0
Other Non-Asphalt Surfaces	1.56	Acre	1.56	67,953.60	0
Unenclosed Parking Structure	537.70	1000sqft	2.47	537,700.00	0
Hotel	250.00	Room	0.62	189,820.00	0
Quality Restaurant	50.00	1000sqft	0.00	50,000.00	0
Regional Shopping Center	640.00	1000sqft	7.20	640,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9	<b>Operational Year</b>		2017	
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	630.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

- Project Characteristics -
- Land Use - Revise Default Areas to Match Project
- Construction Phase - No Construction
- Off-road Equipment -
- Trips and VMT - No Construction
- Grading -
- Architectural Coating - Coating Area Adjusted to Building Sizes
- Vehicle Trips - Trip Generation Per Traffic Study
- Note That Pass-By Trips are Included in Trip Generation Rates
- Water And Wastewater - Water Demand From Project Engineer
- Mobile Land Use Mitigation -
- Mobile Commute Mitigation -
- Area Mitigation - Use low-VOC coatings

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	925,328.00	636,848.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,775,985.00	1,910,545.00
tblAreaCoating	Area_Nonresidential_Interior	2775985	1910545
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250	0
tblLandUse	LandUseSquareFeet	75,510.00	75,513.00
tblLandUse	LandUseSquareFeet	363,000.00	189,820.00
tblLandUse	LotAcreage	6.65	0.00
tblLandUse	LotAcreage	1.73	0.00
tblLandUse	LotAcreage	12.34	2.47
tblLandUse	LotAcreage	8.33	0.62



## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Implement Trip Reduction Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Mitigated	96.6308	277.9303	1,062.5607	2.6247	184.8262	3.8647	188.6909	49.3833	3.5572	52.9404			223,772.0244	8.9070		223,959.0705

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hotel	1,895.00	2,225.00	225.00	7,027,970	6,601,737
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Quality Restaurant	3,048.50	3,197.00	3197.00	10,237,267	9,622,071
Regional Shopping Center	14,022.40	21,600.00	21600.00	55,690,944	52,325,844
Unenclosed Parking Structure	0.00	0.00	0.00		
<b>Total</b>	<b>18,965.90</b>	<b>27,022.00</b>	<b>27,022.00</b>	<b>72,956,181</b>	<b>68,549,651</b>

### 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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	100	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	100	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	100	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513125	0.060112	0.180262	0.139218	0.042100	0.006630	0.016061	0.030999	0.001941	0.002506	0.004348	0.000594	0.002104

## 5.0 Energy Detail

### 4.4 Fleet Mix

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				
Natural Gas Mitigated	0.5167	4.6972	3.9457	0.0282		0.3570	0.3570		0.3570	0.3570			5,636.6789	0.1080	0.1033	5,670.9828

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hotel	13.0118	0.1403	1.2757	1.0716	7.6500e-003		0.0970	0.0970		0.0970	0.0970			1,530.7966	0.0293	0.0281	1,540.1128
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Quality Restaurant	31.9192	0.3442	3.1293	2.6286	0.0188		0.2378	0.2378		0.2378	0.2378			3,755.1974	0.0720	0.0689	3,778.0509
Regional Shopping Center	2.98082	0.0322	0.2922	0.2455	1.7500e-003		0.0222	0.0222		0.0222	0.0222			350.6849	6.7200e-003	6.4300e-003	352.8191
Unenclosed Parking Structure	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
Enclosed Parking with Elevator	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
<b>Total</b>		<b>0.5167</b>	<b>4.6972</b>	<b>3.9457</b>	<b>0.0282</b>		<b>0.3570</b>	<b>0.3570</b>		<b>0.3570</b>	<b>0.3570</b>			<b>5,636.6789</b>	<b>0.1080</b>	<b>0.1033</b>	<b>5,670.9828</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	36.6615	1.8200e-003	0.1919	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004			0.4037	1.1200e-003		0.4273

### 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	36.6430					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0185	1.8200e-003	0.1919	1.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004			0.4037	1.1200e-003		0.4273
<b>Total</b>	<b>36.6615</b>	<b>1.8200e-003</b>	<b>0.1919</b>	<b>1.0000e-005</b>		<b>6.9000e-004</b>	<b>6.9000e-004</b>		<b>6.9000e-004</b>	<b>6.9000e-004</b>			<b>0.4037</b>	<b>1.1200e-003</b>		<b>0.4273</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 Vegetation

## Flair Spectrum Full Operation South Coast Air Basin, Summer

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	289.67	1000sqft	0.00	289,670.00	0
Enclosed Parking with Elevator	75.51	1000sqft	0.00	75,513.00	0
Other Non-Asphalt Surfaces	1.56	Acre	1.56	67,953.60	0
Unenclosed Parking Structure	537.70	1000sqft	2.47	537,700.00	0
Hotel	250.00	Room	0.62	189,820.00	0
Quality Restaurant	50.00	1000sqft	0.00	50,000.00	0
Condo/Townhouse High Rise	600.00	Dwelling Unit	0.00	914,920.00	1614
Regional Shopping Center	640.00	1000sqft	7.20	640,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9	<b>Operational Year</b>		2020	
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	630.89	<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

- Project Characteristics -
- Land Use - Revise Default Areas to Match Project
- Construction Phase - No Construction
- Off-road Equipment -
- Trips and VMT - No Construction
- Grading -
- Architectural Coating - Coating Area Adjusted to Building Sizes
- Vehicle Trips - Trip Generation Per Traffic Study
- Woodstoves - No Woodstoves
- No Fireplaces
- Water And Wastewater - Water Demand From Project Engineer
- No Septic Tanks
- Mobile Land Use Mitigation -
- Mobile Commute Mitigation -
- Area Mitigation - Use low-VOC Paints
- Energy Mitigation -
- Water Mitigation -
- Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	925,328.00	905,698.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,775,985.00	2,717,095.00
tblAreaCoating	Area_Nonresidential_Interior	2775985	2717095
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0

tblAreaMitigation	UseLowVOCPaintResidentialExteriorVa	100	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorVa	50	0
tblFireplaces	NumberGas	510.00	0.00
tblFireplaces	NumberNoFireplace	60.00	600.00
tblFireplaces	NumberWood	30.00	0.00
tblLandUse	LandUseSquareFeet	75,510.00	75,513.00
tblLandUse	LandUseSquareFeet	363,000.00	189,820.00
tblLandUse	LandUseSquareFeet	600,000.00	914,920.00
tblLandUse	LotAcreage	6.65	0.00
tblLandUse	LotAcreage	1.73	0.00
tblLandUse	LotAcreage	12.34	2.47
tblLandUse	LotAcreage	8.33	0.62
tblLandUse	LotAcreage	1.15	0.00
tblLandUse	LotAcreage	9.38	0.00
tblLandUse	LotAcreage	14.69	7.20
tblLandUse	Population	1,716.00	1,614.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblSolidWaste	SolidWasteGenerationRate	45.63	51.50
tblSolidWaste	SolidWasteGenerationRate	672.00	624.01
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripNumber	229.00	227.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	DV_TP	18.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	44.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	PR_TP	38.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	ST_TR	7.16	5.67
tblVehicleTrips	ST_TR	8.19	10.50
tblVehicleTrips	ST_TR	49.97	41.00
tblVehicleTrips	SU_TR	6.07	5.67
tblVehicleTrips	SU_TR	5.95	10.50
tblVehicleTrips	SU_TR	72.16	94.36
tblVehicleTrips	SU_TR	25.24	41.00
tblVehicleTrips	WD_TR	6.59	5.81
tblVehicleTrips	WD_TR	8.17	8.92
tblVehicleTrips	WD_TR	89.95	89.96
tblVehicleTrips	WD_TR	42.94	26.59
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79

tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	IndoorWaterUseRate	39,092,415.37	44,403,010.00
tblWater	IndoorWaterUseRate	6,341,692.50	3,350,249.00
tblWater	IndoorWaterUseRate	0.00	546,979.00
tblWater	IndoorWaterUseRate	15,176,685.62	7,289,803.00
tblWater	IndoorWaterUseRate	47,406,413.75	7,110,732.00
tblWater	OutdoorWaterUseRate	24,645,218.39	0.00
tblWater	OutdoorWaterUseRate	704,632.50	0.00
tblWater	OutdoorWaterUseRate	0.00	3,236,112.00
tblWater	OutdoorWaterUseRate	968,724.61	0.00
tblWater	OutdoorWaterUseRate	29,055,543.91	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	30.00	0.00
tblWoodstoves	NumberNoncatalytic	30.00	0.00

## 2.0 Emissions Summary

### 2.2 Overall Operational

#### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	69.8126	0.5762	49.8548	2.6300e-003		0.2738	0.2738		0.2738	0.2738			89.5351	0.0880	0.0000	91.3829
Energy	0.7721	6.8796	4.8744	0.0421		0.5334	0.5334		0.5334	0.5334			8,422.6960	0.1614	0.1544	8,473.9551
Mobile	109.2967	306.1507	1,274.2216	4.0765	272.7621	5.2671	278.0292	72.8829	4.8579	77.7407			314,768.7145	10.8195		314,995.9229
<b>Total</b>	<b>179.8814</b>	<b>313.6064</b>	<b>1,328.9508</b>	<b>4.1212</b>	<b>272.7621</b>	<b>6.0743</b>	<b>278.8364</b>	<b>72.8829</b>	<b>5.6651</b>	<b>78.5479</b>			<b>323,280.9456</b>	<b>11.0689</b>	<b>0.1544</b>	<b>323,561.2610</b>

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	109.2967	306.1507	1,274.2216	4.0765	272.7621	5.2671	278.0292	72.8829	4.8579	77.7407			314,768.7145	10.8195		314,995.9229

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse High Rise	3,486.00	3,402.00	3,402.00	13,325,520	13,325,520
Enclosed Parking with Elevator	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hotel	2,230.00	2,625.00	2,625.00	8,277,106	8,277,106
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Quality Restaurant	4,498.00	4,718.00	4,718.00	15,105,723	15,105,723
Regional Shopping Center	17,017.60	26,240.00	26,240.00	67,612,361	67,612,361
Unenclosed Parking Structure	0.00	0.00	0.00		
<b>Total</b>	<b>27,231.60</b>	<b>36,985.00</b>	<b>36,985.00</b>	<b>104,320,711</b>	<b>104,320,711</b>

### 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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	100	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	100	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	100	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	100	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510092	0.059583	0.181091	0.139410	0.042694	0.006692	0.016202	0.032692	0.001943	0.002491	0.004392	0.000576	0.002140

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Natural Gas Unmitigated	0.7721	6.8796	4.8744	0.0421		0.5334	0.5334		0.5334	0.5334			8,422.6960	0.1614	0.1544	8,473.9551

#### 5.2 Energy by Land Use - Natural Gas

##### Unmitigated

Land Use	Natural Gas Use kBTU/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Enclosed Parking with Elevator	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
Hotel	13011.8	0.1403	1.2757	1.0716	7.6500e-003		0.0970	0.0970		0.0970	0.0970			1,530.7966	0.0293	0.0281	1,540.1128
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Quality Restaurant	31919.2	0.3442	3.1293	2.6286	0.0188		0.2378	0.2378		0.2378	0.2378			3,755.1974	0.0720	0.0689	3,778.0509
Regional Shopping Center	2980.82	0.0322	0.2922	0.2455	1.7500e-003		0.0222	0.0222		0.0222	0.0222			350.6849	6.7200e-003	6.4300e-003	352.8191
Unenclosed Parking Structure	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
Condo/Townhouse High Rise	23681.1	0.2554	2.1824	0.9287	0.0139		0.1765	0.1765		0.1765	0.1765			2,786.0171	0.0534	0.0511	2,802.9723
<b>Total</b>		<b>0.7721</b>	<b>6.8796</b>	<b>4.8744</b>	<b>0.0421</b>		<b>0.5334</b>	<b>0.5334</b>		<b>0.5334</b>	<b>0.5334</b>			<b>8,422.6960</b>	<b>0.1614</b>	<b>0.1544</b>	<b>8,473.9552</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated	69.8126	0.5762	49.8548	2.6300e-003		0.2738	0.2738		0.2738	0.2738			89.5351	0.0880	0.0000	91.3829

## 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	13.5240					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	54.7584					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
Landscaping	1.5302	0.5762	49.8548	2.6300e-003		0.2738	0.2738		0.2738	0.2738			89.5351	0.0880		91.3829
<b>Total</b>	<b>69.8126</b>	<b>0.5762</b>	<b>49.8548</b>	<b>2.6300e-003</b>		<b>0.2738</b>	<b>0.2738</b>		<b>0.2738</b>	<b>0.2738</b>			<b>89.5351</b>	<b>0.0880</b>	<b>0.0000</b>	<b>91.3829</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System
- Use Water Efficient Landscaping

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

## 9.0 Operational Offroad

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

### Flair Spectrum Full Operation South Coast Air Basin, Summer

#### 1.0 Project Characteristics

##### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	289.67	1000sqft	0.00	289,670.00	0
Enclosed Parking with Elevator	75.51	1000sqft	0.00	75,513.00	0
Other Non-Asphalt Surfaces	1.56	Acre	1.56	67,953.60	0
Unenclosed Parking Structure	537.70	1000sqft	2.47	537,700.00	0
Hotel	250.00	Room	0.62	189,820.00	0
Quality Restaurant	50.00	1000sqft	0.00	50,000.00	0
Condo/Townhouse High Rise	600.00	Dwelling Unit	0.00	914,920.00	1614
Regional Shopping Center	640.00	1000sqft	7.20	640,000.00	0

##### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9	<b>Operational Year</b>		2020	
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	630.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

- Project Characteristics -
- Land Use - Revise Default Areas to Match Project
- Construction Phase - No Construction
- Off-road Equipment -
- Trips and VMT - No Construction
- Grading -
- Architectural Coating - Coating Area Adjusted to Building Sizes
- Vehicle Trips - Trip Generation Per Traffic Study
- Woodstoves - No Woodstoves
- No Fireplaces
- Water And Wastewater - Water Demand From Project Engineer
- No Septic Tanks
- Mobile Land Use Mitigation -
- Mobile Commute Mitigation -
- Area Mitigation - Use low-VOC Paints
- Energy Mitigation -
- Water Mitigation -
- Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	925,328.00	905,698.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,775,985.00	2,717,095.00
tblAreaCoating	Area_Nonresidential_Interior	2775985	2717095
tblAreaMitigation	UseLowVOCPaintNonresidentialExterior	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInterior	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExterior	100	0



tblWater	AerobicPercent	87.46	97.79
tblWater	IndoorWaterUseRate	39,092,415.37	44,403,010.00
tblWater	IndoorWaterUseRate	6,341,692.50	3,350,249.00
tblWater	IndoorWaterUseRate	0.00	546,979.00
tblWater	IndoorWaterUseRate	15,176,685.62	7,289,803.00
tblWater	IndoorWaterUseRate	47,406,413.75	7,110,732.00
tblWater	OutdoorWaterUseRate	24,645,218.39	0.00
tblWater	OutdoorWaterUseRate	704,632.50	0.00
tblWater	OutdoorWaterUseRate	0.00	3,236,112.00
tblWater	OutdoorWaterUseRate	968,724.61	0.00
tblWater	OutdoorWaterUseRate	29,055,543.91	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	30.00	0.00
tblWoodstoves	NumberNoncatalytic	30.00	0.00

### 3.2 None - 2015

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Implement Trip Reduction Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	85.4791	227.4361	953.3273	2.9892	199.4999	3.8755	203.3753	53.3070	3.5745	56.8814			230,813.5878	7.9738		230,981.0375

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse High Rise	2,940.00	2,892.00	2892.00	11,263,512	10,357,872
Enclosed Parking with Elevator	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hotel	1,895.00	2,225.00	2,225.00	7,027,970	6,335,837
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Quality Restaurant	3,048.50	3,197.00	3,197.00	10,237,267	9,234,521
Regional Shopping Center	14,022.40	21,600.00	21,600.00	55,690,944	50,218,305
Unenclosed Parking Structure	0.00	0.00	0.00		
<b>Total</b>	<b>21,905.90</b>	<b>29,914.00</b>	<b>29,914.00</b>	<b>84,219,693</b>	<b>76,146,536</b>

### 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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	100	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	100	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	100	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	100	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510092	0.059583	0.181091	0.139410	0.042694	0.006692	0.016202	0.032692	0.001943	0.002491	0.004392	0.000576	0.002140

## 5.0 Energy Detail

### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Natural Gas Mitigated	0.7516	6.6986	4.7583	0.0410		0.5193	0.5193		0.5193	0.5193			8,198.8839	0.1572	0.1503	8,248.7809

### Mitigated

	Natural Gas 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					
Hotel	12.4668	0.1345	1.2222	1.0267	7.3300e-003		0.0929	0.0929		0.0929	0.0929			1,466.6769	0.0281	0.0269	1,475.6028
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Quality Restaurant	31.6094	0.3409	3.0990	2.6031	0.0186		0.2355	0.2355		0.2355	0.2355			3,718.7510	0.0713	0.0682	3,741.3827
Regional Shopping Center	2.87474	0.0310	0.2818	0.2367	1.6900e-003		0.0214	0.0214		0.0214	0.0214			338.2047	6.4800e-003	6.2000e-003	340.2629
Unenclosed Parking Structure	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
Condo/Townhouse High Rise	22.7396	0.2452	2.0956	0.8918	0.0134		0.1694	0.1694		0.1694	0.1694			2,675.2513	0.0513	0.0491	2,691.5324
Enclosed Parking with Elevator	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
<b>Total</b>		<b>0.7516</b>	<b>6.6986</b>	<b>4.7583</b>	<b>0.0410</b>		<b>0.5193</b>	<b>0.5193</b>		<b>0.5193</b>	<b>0.5193</b>			<b>8,198.8839</b>	<b>0.1572</b>	<b>0.1503</b>	<b>8,248.7809</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	55.5653	0.4542	37.8312	1.7000e-003		0.2033	0.2033		0.2033	0.2033			62.5875	0.0458	0.0000	63.5486

**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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	54.7584					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
Landscaping	0.8068	0.4542	37.8312	1.7000e-003		0.2033	0.2033		0.2033	0.2033			62.5875	0.0458		63.5486
<b>Total</b>	<b>55.5653</b>	<b>0.4542</b>	<b>37.8312</b>	<b>1.7000e-003</b>		<b>0.2033</b>	<b>0.2033</b>		<b>0.2033</b>	<b>0.2033</b>			<b>62.5875</b>	<b>0.0458</b>	<b>0.0000</b>	<b>63.5486</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System
- Use Water Efficient Landscaping

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

- Institute Recycling and Composting Services

**9.0 Operational Offroad**

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

## Flair Spectrum Full Operation South Coast Air Basin, Winter

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	289.67	1000sqft	0.00	289,670.00	0
Enclosed Parking with Elevator	75.51	1000sqft	0.00	75,513.00	0
Other Non-Asphalt Surfaces	1.56	Acre	1.56	67,953.60	0
Unenclosed Parking Structure	537.70	1000sqft	2.47	537,700.00	0
Hotel	250.00	Room	0.62	189,820.00	0
Quality Restaurant	50.00	1000sqft	0.00	50,000.00	0
Condo/Townhouse High Rise	600.00	Dwelling Unit	0.00	914,920.00	1614
Regional Shopping Center	640.00	1000sqft	7.20	640,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9	<b>Operational Year</b>		2020	
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	630.89	<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

- Project Characteristics -
- Land Use - Revise Default Areas to Match Project
- Construction Phase - No Construction
- Off-road Equipment -
- Trips and VMT - No Construction
- Grading -
- Architectural Coating - Coating Area Adjusted to Building Sizes
- Vehicle Trips - Trip Generation Per Traffic Study
- Woodstoves - No Woodstoves
- No Fireplaces
- Water And Wastewater - Water Demand From Project Engineer
- No Septic Tanks
- Mobile Land Use Mitigation -
- Mobile Commute Mitigation -
- Area Mitigation - Use low-VOC Paints
- Energy Mitigation -
- Water Mitigation -
- Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	925,328.00	905,698.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,775,985.00	2,717,095.00
tblAreaCoating	Area_Nonresidential_Interior	2775985	2717095
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0

tblAreaMitigation	UseLowVOCPaintResidentialExteriorVa	100	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorVa	50	0
tblFireplaces	NumberGas	510.00	0.00
tblFireplaces	NumberNoFireplace	60.00	600.00
tblFireplaces	NumberWood	30.00	0.00
tblLandUse	LandUseSquareFeet	75,510.00	75,513.00
tblLandUse	LandUseSquareFeet	363,000.00	189,820.00
tblLandUse	LandUseSquareFeet	600,000.00	914,920.00
tblLandUse	LotAcreage	6.65	0.00
tblLandUse	LotAcreage	1.73	0.00
tblLandUse	LotAcreage	12.34	2.47
tblLandUse	LotAcreage	8.33	0.62
tblLandUse	LotAcreage	1.15	0.00
tblLandUse	LotAcreage	9.38	0.00
tblLandUse	LotAcreage	14.69	7.20
tblLandUse	Population	1,716.00	1,614.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblSolidWaste	SolidWasteGenerationRate	45.63	51.50
tblSolidWaste	SolidWasteGenerationRate	672.00	624.01
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripNumber	229.00	227.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	DV_TP	18.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	44.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	PR_TP	38.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	ST_TR	7.16	5.67
tblVehicleTrips	ST_TR	8.19	10.50
tblVehicleTrips	ST_TR	49.97	41.00
tblVehicleTrips	SU_TR	6.07	5.67
tblVehicleTrips	SU_TR	5.95	10.50
tblVehicleTrips	SU_TR	72.16	94.36
tblVehicleTrips	SU_TR	25.24	41.00
tblVehicleTrips	WD_TR	6.59	5.81
tblVehicleTrips	WD_TR	8.17	8.92
tblVehicleTrips	WD_TR	89.95	89.96
tblVehicleTrips	WD_TR	42.94	26.59
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79

tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	IndoorWaterUseRate	39,092,415.37	44,403,010.00
tblWater	IndoorWaterUseRate	6,341,692.50	3,350,249.00
tblWater	IndoorWaterUseRate	0.00	546,979.00
tblWater	IndoorWaterUseRate	15,176,685.62	7,289,803.00
tblWater	IndoorWaterUseRate	47,406,413.75	7,110,732.00
tblWater	OutdoorWaterUseRate	24,645,218.39	0.00
tblWater	OutdoorWaterUseRate	704,632.50	0.00
tblWater	OutdoorWaterUseRate	0.00	3,236,112.00
tblWater	OutdoorWaterUseRate	968,724.61	0.00
tblWater	OutdoorWaterUseRate	29,055,543.91	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	30.00	0.00
tblWoodstoves	NumberNoncatalytic	30.00	0.00

#### 4.0 Operational Detail - Mobile

#### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	112.3249	321.7417	1,251.9112	3.8707	272.7621	5.2831	278.0452	72.8829	4.8726	77.7555			299,767.8975	10.8309		299,995.3454

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse High Rise	3,486.00	3,402.00	3402.00	13,325,520	13,325,520
Enclosed Parking with Elevator	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hotel	2,230.00	2,625.00	2625.00	8,277,106	8,277,106
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Quality Restaurant	4,498.00	4,718.00	4718.00	15,105,723	15,105,723
Regional Shopping Center	17,017.60	26,240.00	26240.00	67,612,361	67,612,361
Unenclosed Parking Structure	0.00	0.00	0.00		
<b>Total</b>	<b>27,231.60</b>	<b>36,985.00</b>	<b>36,985.00</b>	<b>104,320,711</b>	<b>104,320,711</b>

#### 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 High Rise	14.70	5.90	8.70	40.20	19.20	40.60	100	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	100	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	100	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	100	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510092	0.059583	0.181091	0.139410	0.042694	0.006692	0.016202	0.032692	0.001943	0.002491	0.004392	0.000576	0.002140

## 5.0 Energy Detail

### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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 Unmitigated	0.7721	6.8796	4.8744	0.0421		0.5334	0.5334		0.5334	0.5334			8,422.6960	0.1614	0.1544	8,473.9551

### 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					
Enclosed Parking with Elevator	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
Hotel	13011.8	0.1403	1.2757	1.0716	7.6500e-003		0.0970	0.0970		0.0970	0.0970			1,530.7966	0.0293	0.0281	1,540.1128
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Quality Restaurant	31919.2	0.3442	3.1293	2.6286	0.0188		0.2378	0.2378		0.2378	0.2378			3,755.1974	0.0720	0.0689	3,778.0509
Regional Shopping Center	2980.82	0.0322	0.2922	0.2455	1.7500e-003		0.0222	0.0222		0.0222	0.0222			350.6849	6.7200e-003	6.4300e-003	352.8191
Unenclosed Parking Structure	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
Condo/Townhouse High Rise	23681.1	0.2554	2.1824	0.9287	0.0139		0.1765	0.1765		0.1765	0.1765			2,786.0171	0.0534	0.0511	2,802.9723
<b>Total</b>		<b>0.7721</b>	<b>6.8796</b>	<b>4.8744</b>	<b>0.0421</b>		<b>0.5334</b>	<b>0.5334</b>		<b>0.5334</b>	<b>0.5334</b>			<b>8,422.6960</b>	<b>0.1614</b>	<b>0.1544</b>	<b>8,473.9552</b>

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Unmitigated	69.8126	0.5762	49.8548	2.6300e-003		0.2738	0.2738		0.2738	0.2738			89.5351	0.0880	0.0000	91.3829

### 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	13.5240					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	54.7584					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
Landscaping	1.5302	0.5762	49.8548	2.6300e-003		0.2738	0.2738		0.2738	0.2738			89.5351	0.0880		91.3829
<b>Total</b>	<b>69.8126</b>	<b>0.5762</b>	<b>49.8548</b>	<b>2.6300e-003</b>		<b>0.2738</b>	<b>0.2738</b>		<b>0.2738</b>	<b>0.2738</b>			<b>89.5351</b>	<b>0.0880</b>	<b>0.0000</b>	<b>91.3829</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System
- Use Water Efficient Landscaping

### 8.0 Waste Detail

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#### 8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

### 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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### 10.0 Vegetation

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## Flair Spectrum Full Operation South Coast Air Basin, Winter

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	289.67	1000sqft	0.00	289,670.00	0
Enclosed Parking with Elevator	75.51	1000sqft	0.00	75,513.00	0
Other Non-Asphalt Surfaces	1.56	Acre	1.56	67,953.60	0
Unenclosed Parking Structure	537.70	1000sqft	2.47	537,700.00	0
Hotel	250.00	Room	0.62	189,820.00	0
Quality Restaurant	50.00	1000sqft	0.00	50,000.00	0
Condo/Townhouse High Rise	600.00	Dwelling Unit	0.00	914,920.00	1614
Regional Shopping Center	640.00	1000sqft	7.20	640,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9	<b>Operational Year</b>		2020	
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	630.89	<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

- Project Characteristics -
- Land Use - Revise Default Areas to Match Project
- Construction Phase - No Construction
- Off-road Equipment -
- Trips and VMT - No Construction
- Grading -
- Architectural Coating - Coating Area Adjusted to Building Sizes
- Vehicle Trips - Trip Generation Per Traffic Study
- Woodstoves - No Woodstoves
- No Fireplaces
- Water And Wastewater - Water Demand From Project Engineer
- No Septic Tanks
- Mobile Land Use Mitigation -
- Mobile Commute Mitigation -
- Area Mitigation - Use low-VOC Paints
- Energy Mitigation -
- Water Mitigation -
- Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	925,328.00	905,698.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,775,985.00	2,717,095.00
tblAreaCoating	Area_Nonresidential_Interior	2775985	2717095
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0

tblAreaMitigation	UseLowVOCPaintResidentialExteriorVa	100	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorVa	50	0
tblFireplaces	NumberGas	510.00	0.00
tblFireplaces	NumberNoFireplace	60.00	600.00
tblFireplaces	NumberWood	30.00	0.00
tblLandUse	LandUseSquareFeet	75,510.00	75,513.00
tblLandUse	LandUseSquareFeet	363,000.00	189,820.00
tblLandUse	LandUseSquareFeet	600,000.00	914,920.00
tblLandUse	LotAcreage	6.65	0.00
tblLandUse	LotAcreage	1.73	0.00
tblLandUse	LotAcreage	12.34	2.47
tblLandUse	LotAcreage	8.33	0.62
tblLandUse	LotAcreage	1.15	0.00
tblLandUse	LotAcreage	9.38	0.00
tblLandUse	LotAcreage	14.69	7.20
tblLandUse	Population	1,716.00	1,614.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblSolidWaste	SolidWasteGenerationRate	45.63	51.50
tblSolidWaste	SolidWasteGenerationRate	672.00	624.01
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblTripsAndVMT	WorkerTripNumber	229.00	227.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	DV_TP	18.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	44.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	PR_TP	38.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	ST_TR	7.16	4.82
tblVehicleTrips	ST_TR	8.19	8.90
tblVehicleTrips	ST_TR	94.36	63.94
tblVehicleTrips	ST_TR	49.97	33.75
tblVehicleTrips	SU_TR	6.07	4.82
tblVehicleTrips	SU_TR	5.95	8.90
tblVehicleTrips	SU_TR	72.16	63.94
tblVehicleTrips	SU_TR	25.24	33.75
tblVehicleTrips	WD_TR	6.59	4.90
tblVehicleTrips	WD_TR	8.17	7.58
tblVehicleTrips	WD_TR	89.95	60.97
tblVehicleTrips	WD_TR	42.94	21.91
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79

tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	IndoorWaterUseRate	39,092,415.37	44,403,010.00
tblWater	IndoorWaterUseRate	6,341,692.50	3,350,249.00
tblWater	IndoorWaterUseRate	0.00	546,979.00
tblWater	IndoorWaterUseRate	15,176,685.62	7,289,803.00
tblWater	IndoorWaterUseRate	47,406,413.75	7,110,732.00
tblWater	OutdoorWaterUseRate	24,645,218.39	0.00
tblWater	OutdoorWaterUseRate	704,632.50	0.00
tblWater	OutdoorWaterUseRate	0.00	3,236,112.00
tblWater	OutdoorWaterUseRate	968,724.61	0.00
tblWater	OutdoorWaterUseRate	29,055,543.91	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	30.00	0.00
tblWoodstoves	NumberNoncatalytic	30.00	0.00

#### 4.0 Operational Detail - Mobile

#### 4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Implement Trip Reduction Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	88.0297	238.8653	943.4071	2.8385	199.4999	3.8884	203.3883	53.3070	3.5864	56.8933			219,817.11	7.9830		219,984.7562

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Condo/Townhouse High Rise	2,940.00	2,892.00	2892.00	11,263,512	10,357,872
Enclosed Parking with Elevator	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hotel	1,895.00	2,225.00	2225.00	7,027,970	6,335,837
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Quality Restaurant	3,048.50	3,197.00	3197.00	10,237,267	9,234,521
Regional Shopping Center	14,022.40	21,600.00	21600.00	55,690,944	50,218,305
Unenclosed Parking Structure	0.00	0.00	0.00		
<b>Total</b>	<b>21,905.90</b>	<b>29,914.00</b>	<b>29,914.00</b>	<b>84,219,693</b>	<b>76,146,536</b>

### 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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse High Rise	14.70	5.90	8.70	40.20	19.20	40.60	100	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	100	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	100	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	100	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510092	0.059583	0.181091	0.139410	0.042694	0.006692	0.016202	0.032692	0.001943	0.002491	0.004392	0.000576	0.002140

### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Natural Gas Mitigated	0.7516	6.6986	4.7583	0.0410		0.5193	0.5193		0.5193	0.5193			8,198.8839	0.1572	0.1503	8,248.7809

#### 5.2 Energy by Land Use - Natural Gas

##### Mitigated

	Natural Gas 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					
Enclosed Parking with Elevator	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
Hotel	12.4668	0.1345	1.2222	1.0267	7.3300e-003		0.0929	0.0929		0.0929	0.0929			3,718.7519	0.0281	0.0269	1,475.6028
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Quality Restaurant	31.6094	0.3409	3.0990	2.6031	0.0186		0.2355	0.2355		0.2355	0.2355			3,718.7510	0.0713	0.0682	3,741.3827
Regional Shopping Center	2.87474	0.0310	0.2818	0.2367	1.6900e-003		0.0214	0.0214		0.0214	0.0214			338.2047	6.4800e-003	6.2000e-003	340.2629
Unenclosed Parking Structure	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
Condo/Townhouse High Rise	22.7396	0.2452	2.0956	0.8918	0.0134		0.1694	0.1694		0.1694	0.1694			2,675.2513	0.0513	0.0491	2,691.5324
<b>Total</b>		<b>0.7516</b>	<b>6.6986</b>	<b>4.7583</b>	<b>0.0410</b>		<b>0.5193</b>	<b>0.5193</b>		<b>0.5193</b>	<b>0.5193</b>			<b>8,198.8839</b>	<b>0.1572</b>	<b>0.1503</b>	<b>8,248.7809</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	55.5653	0.4542	37.8312	1.7000e-003		0.2033	0.2033		0.2033	0.2033			62.5875	0.0458	0.0000	63.5486

### 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	54.7584					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
Landscaping	0.8068	0.4542	37.8312	1.7000e-003		0.2033	0.2033		0.2033	0.2033			62.5875	0.0458		63.5486
<b>Total</b>	<b>55.5653</b>	<b>0.4542</b>	<b>37.8312</b>	<b>1.7000e-003</b>		<b>0.2033</b>	<b>0.2033</b>		<b>0.2033</b>	<b>0.2033</b>			<b>62.5875</b>	<b>0.0458</b>	<b>0.0000</b>	<b>63.5486</b>

### 7.0 Water Detail

#### 7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System
- Use Water Efficient Landscaping

### 8.0 Waste Detail

#### 8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

### 9.0 Operational Offroad

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

## Flair Spectrum Full Operation South Coast Air Basin, Annual

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	289.67	1000sqft	0.00	289,670.00	0
Enclosed Parking with Elevator	75.51	1000sqft	0.00	75,513.00	0
Other Non-Asphalt Surfaces	1.56	Acre	1.56	67,953.60	0
Unenclosed Parking Structure	537.70	1000sqft	2.47	537,700.00	0
Hotel	250.00	Room	0.62	189,820.00	0
Quality Restaurant	50.00	1000sqft	0.00	50,000.00	0
Condo/Townhouse High Rise	600.00	Dwelling Unit	0.00	914,920.00	1614
Regional Shopping Center	640.00	1000sqft	7.20	640,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9	<b>Operational Year</b>		2020	
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	630.89	<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

- Project Characteristics -
- Land Use - Revise Default Areas to Match Project
- Construction Phase - No Construction
- Off-road Equipment -
- Trips and VMT - No Construction
- Grading -
- Architectural Coating - Coating Area Adjusted to Building Sizes
- Vehicle Trips - Trip Generation Per Traffic Study
- Water And Wastewater - Water Demand From Project Engineer
- No Septic Tanks
- Woodstoves - No Woodstoves
- No Fireplaces

Table Name	Column Name	Default Value	New Value
tblFireplaces	NumberGas	510.00	0.00
tblFireplaces	NumberNoFireplace	60.00	600.00
tblFireplaces	NumberWood	30.00	0.00
tblLandUse	LandUseSquareFeet	75,510.00	75,513.00
tblLandUse	LandUseSquareFeet	363,000.00	189,820.00
tblLandUse	LandUseSquareFeet	600,000.00	914,920.00
tblLandUse	LotAcreage	6.65	0.00
tblLandUse	LotAcreage	1.73	0.00
tblLandUse	LotAcreage	12.34	2.47
tblLandUse	LotAcreage	8.33	0.62
tblLandUse	LotAcreage	1.15	0.00

tblLandUse	LotAcreage	9.38	0.00
tblLandUse	LotAcreage	14.69	7.20
tblLandUse	Population	1,716.00	1,614.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	DV_TP	18.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	44.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	PR_TP	38.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	ST_TR	7.16	5.67
tblVehicleTrips	ST_TR	8.19	10.50
tblVehicleTrips	ST_TR	49.97	41.00
tblVehicleTrips	SU_TR	6.07	5.67
tblVehicleTrips	SU_TR	5.95	10.50
tblVehicleTrips	SU_TR	72.16	94.36
tblVehicleTrips	SU_TR	25.24	41.00
tblVehicleTrips	WD_TR	6.59	5.81
tblVehicleTrips	WD_TR	8.17	8.92
tblVehicleTrips	WD_TR	89.95	89.96
tblVehicleTrips	WD_TR	42.94	26.60
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	IndoorWaterUseRate	39,092,415.37	44,403,010.00
tblWater	IndoorWaterUseRate	6,341,692.50	3,350,249.00
tblWater	IndoorWaterUseRate	0.00	546,979.00
tblWater	IndoorWaterUseRate	17,131,442.73	7,289,803.00
tblWater	IndoorWaterUseRate	44,021,299.52	7,110,732.00
tblWater	OutdoorWaterUseRate	24,645,218.39	0.00
tblWater	OutdoorWaterUseRate	704,632.50	0.00
tblWater	OutdoorWaterUseRate	0.00	3,119,085.00
tblWater	OutdoorWaterUseRate	1,093,496.34	0.00
tblWater	OutdoorWaterUseRate	26,980,796.48	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	30.00	0.00
tblWoodstoves	NumberNoncatalytic	30.00	0.00

## 2.0 Emissions Summary

### 2.2 Overall Operational

#### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	12.6414	0.0720	6.2319	3.3000e-004		0.0342	0.0342		0.0342	0.0342			10.1531	9.9800e-003	0.0000	10.3627
Energy	0.1409	1.2555	0.8896	7.6900e-003		0.0974	0.0974		0.0974	0.0974			7,169.8869	0.2922	0.0805	7,200.9757
Mobile	15.7733	48.4419	186.6134	0.5782	39.5461	0.7778	40.3239	10.5828	0.7173	11.3001			40,590.6223	1.4481	0.0000	40,621.0330
Waste						0.0000	0.0000		0.0000	0.0000			220.9333	13.0568	0.0000	495.1258
Water						0.0000	0.0000		0.0000	0.0000			265.7345	0.5911	0.0506	293.8208
<b>Total</b>	<b>28.5556</b>	<b>49.7695</b>	<b>193.7348</b>	<b>0.5862</b>	<b>39.5461</b>	<b>0.9093</b>	<b>40.4555</b>	<b>10.5828</b>	<b>0.8489</b>	<b>11.4317</b>			<b>48,257.3302</b>	<b>15.3982</b>	<b>0.1311</b>	<b>48,621.3180</b>

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Unmitigated	15.7733	48.4419	186.6134	0.5782	39.5461	0.7778	40.3239	10.5828	0.7173	11.3001			40,590.6223	1.4481	0.0000	40,621.0330

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Condo/Townhouse High Rise	3,486.00	3,402.00	3402.00	13,325,520	13,325,520
Enclosed Parking with Elevator	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hotel	2,230.00	2,625.00	2625.00	8,277,106	8,277,106
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Quality Restaurant	4,498.00	4,718.00	4718.00	15,105,723	15,105,723
Regional Shopping Center	17,024.00	26,240.00	26240.00	67,628,088	67,628,088
Unenclosed Parking Structure	0.00	0.00	0.00		
<b>Total</b>	<b>27,238.00</b>	<b>36,985.00</b>	<b>36,985.00</b>	<b>104,336,438</b>	<b>104,336,438</b>

### 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 High Rise	14.70	5.90	8.70	40.20	19.20	40.60	100	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	100	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	100	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	100	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510092	0.059583	0.181091	0.139410	0.042694	0.006692	0.016202	0.032692	0.001943	0.002491	0.004392	0.000576	0.002140

## 5.0 Energy Detail

### 4.4 Fleet Mix

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 Unmitigated							0.0000	0.0000		0.0000			5,775.4152	0.2655	0.0549	5,798.0174
Natural Gas Unmitigated	0.1409	1.2555	0.8896	7.6900e-003		0.0974	0.0974		0.0974	0.0974			1,394.4718	0.0267	0.0256	1,402.9583

### 5.2 Energy by Land Use - Natural Gas

#### Unmitigated

	Natural Gas 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					
Enclosed Parking with Elevator	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
Hotel	4.7493e+006	0.0256	0.2328	0.1956	1.4000e-003		0.0177	0.0177		0.0177	0.0177			253.4405	4.8600e-003	4.6500e-003	254.9829
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.16505e+007	0.0628	0.5711	0.4797	3.4300e-003		0.0434	0.0434		0.0434	0.0434			621.7151	0.0119	0.0114	625.4987
Regional Shopping Center	1.088e+006	5.8700e-003	0.0533	0.0448	3.2000e-004		4.0500e-003	4.0500e-003		4.0500e-003	4.0500e-003			58.0598	1.1100e-003	1.0600e-003	58.4132
Unenclosed Parking Structure	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
Condo/Townhouse High Rise	8.64362e+006	0.0466	0.3983	0.1695	2.5400e-003		0.0322	0.0322		0.0322	0.0322			461.2564	8.8400e-003	8.4600e-003	464.0635
<b>Total</b>		<b>0.1409</b>	<b>1.2555</b>	<b>0.8896</b>	<b>7.6900e-003</b>		<b>0.0973</b>	<b>0.0973</b>		<b>0.0973</b>	<b>0.0973</b>			<b>1,394.4718</b>	<b>0.0267</b>	<b>0.0256</b>	<b>1,402.9583</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse High Rise	2.63873e+006	755.1166	0.0347	7.1800e-003	758.0718
Enclosed Parking with Elevator	1.95238e+006	558.7053	0.0257	5.3100e-003	560.8918
Enclosed Parking with Elevator	508958	145.6468	6.6900e-003	1.3900e-003	146.2168
Hotel	1.61347e+006	461.7217	0.0212	4.3900e-003	463.5287
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	2.3455e+006	671.2044	0.0309	6.3800e-003	673.8312
Regional Shopping Center	9.7088e+006	2,778.3371	0.1277	0.0264	2,789.2102
Unenclosed Parking Structure	1.41415e+006	404.6832	0.0186	3.8500e-003	406.2669
<b>Total</b>		<b>5,775.4151</b>	<b>0.2655</b>	<b>0.0549</b>	<b>5,798.0174</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Unmitigated	12.6414	0.0720	6.2319	3.3000e-004		0.0342	0.0342		0.0342	0.0342			10.1531	9.9800e-003	0.0000	10.3627

### 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	2.4568					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	9.9934					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
Landscaping	0.1913	0.0720	6.2319	3.3000e-004		0.0342	0.0342		0.0342	0.0342			10.1531	9.9800e-003	0.0000	10.3627
<b>Total</b>	<b>12.6414</b>	<b>0.0720</b>	<b>6.2319</b>	<b>3.3000e-004</b>		<b>0.0342</b>	<b>0.0342</b>		<b>0.0342</b>	<b>0.0342</b>			<b>10.1531</b>	<b>9.9800e-003</b>	<b>0.0000</b>	<b>10.3627</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated	265.7345	0.5911	0.0506	293.8208

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse: High Rise	44.403 / 0	181.1634	0.4183	0.0357	201.0259
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	3.35025 / 0	13.6690	0.0316	2.7000e-003	15.1676
Other Non-Asphalt Surfaces	0.546979 / 3.11909	12.1482	5.6100e-003	5.3000e-004	12.4317
Quality Restaurant	7.2898 / 0	29.7423	0.0687	5.8700e-003	33.0032
Regional Shopping Center	7.11073 / 0	29.0117	0.0670	5.7200e-003	32.1925
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>265.7345</b>	<b>0.5911</b>	<b>0.0506</b>	<b>293.8208</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Unmitigated	220.9333	13.0568	0.0000	495.1258

### 8.2 Waste by Land Use

#### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse High Rise	276	56.0255	3.3110	0.0000	125.5568
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	136.88	27.7854	1.6421	0.0000	62.2689
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	51.5	10.4540	0.6178	0.0000	23.4282
Regional Shopping Center	624.01	126.6684	7.4859	0.0000	283.8720
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>220.9333</b>	<b>13.0568</b>	<b>0.0000</b>	<b>495.1259</b>

## 9.0 Operational Offroad

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

### Flair Spectrum Full Operation South Coast Air Basin, Annual

#### 1.0 Project Characteristics

##### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	289.67	1000sqft	0.00	289,670.00	0
Enclosed Parking with Elevator	75.51	1000sqft	0.00	75,513.00	0
Other Non-Asphalt Surfaces	1.56	Acre	1.56	67,953.60	0
Unenclosed Parking Structure	537.70	1000sqft	2.47	537,700.00	0
Hotel	250.00	Room	0.62	189,820.00	0
Quality Restaurant	50.00	1000sqft	0.00	50,000.00	0
Condo/Townhouse High Rise	600.00	Dwelling Unit	0.00	914,920.00	1614
Regional Shopping Center	640.00	1000sqft	7.20	640,000.00	0

##### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9	<b>Operational Year</b>		2020	
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	630.89	<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

- Project Characteristics -
- Land Use - Revise Default Areas to Match Project
- Construction Phase - No Construction
- Off-road Equipment -
- Trips and VMT - No Construction
- Grading -
- Architectural Coating - Coating Area Adjusted to Building Sizes
- Vehicle Trips - Trip Generation Per Traffic Study
- Water And Wastewater - Water Demand From Project Engineer
- No Septic Tanks
- Woodstoves - No Woodstoves
- No Fireplaces
- Mobile Land Use Mitigation -
- Mobile Commute Mitigation -
- Area Mitigation - Use low-VOC Paints
- Energy Mitigation -
- Water Mitigation -
- Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	0
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	100	0
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	0
tblFireplaces	NumberGas	510.00	0.00

tblFireplaces	NumberNoFireplace	60.00	600.00
tblFireplaces	NumberWood	30.00	0.00
tblLandUse	LandUseSquareFeet	75,510.00	75,513.00
tblLandUse	LandUseSquareFeet	363,000.00	189,820.00
tblLandUse	LandUseSquareFeet	600,000.00	914,920.00
tblLandUse	LotAcreage	6.65	0.00
tblLandUse	LotAcreage	1.73	0.00
tblLandUse	LotAcreage	12.34	2.47
tblLandUse	LotAcreage	8.33	0.62
tblLandUse	LotAcreage	1.15	0.00
tblLandUse	LotAcreage	9.38	0.00
tblLandUse	LotAcreage	14.69	7.20
tblLandUse	Population	1,716.00	1,614.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	VendorTripLength	6.90	0.00
tblTripsAndVMT	WorkerTripLength	14.70	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	DV_TP	18.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	44.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	PR_TP	38.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	ST_TR	7.16	4.82
tblVehicleTrips	ST_TR	8.19	8.90
tblVehicleTrips	ST_TR	94.36	63.94
tblVehicleTrips	ST_TR	49.97	33.75
tblVehicleTrips	SU_TR	6.07	4.82
tblVehicleTrips	SU_TR	5.95	8.90
tblVehicleTrips	SU_TR	72.16	63.94
tblVehicleTrips	SU_TR	25.24	33.75
tblVehicleTrips	WD_TR	6.59	4.90
tblVehicleTrips	WD_TR	8.17	7.58
tblVehicleTrips	WD_TR	89.95	60.97
tblVehicleTrips	WD_TR	42.94	21.91
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	IndoorWaterUseRate	39,092,415.37	44,403,010.00
tblWater	IndoorWaterUseRate	6,341,692.50	3,350,249.00
tblWater	IndoorWaterUseRate	0.00	546,979.00

tblWater	IndoorWaterUseRate	17,131,442.73	7,289,803.00
tblWater	IndoorWaterUseRate	44,021,299.52	7,110,732.00
tblWater	OutdoorWaterUseRate	24,645,218.39	0.00
tblWater	OutdoorWaterUseRate	704,632.50	0.00
tblWater	OutdoorWaterUseRate	0.00	3,236,112.00
tblWater	OutdoorWaterUseRate	1,093,496.34	0.00
tblWater	OutdoorWaterUseRate	26,980,796.48	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	30.00	0.00
tblWoodstoves	NumberNoncatalytic	30.00	0.00

## 2.0 Emissions Summary

### 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	10.0943	0.0568	4.7289	2.1000e-004		0.0254	0.0254		0.0254	0.0254			7.0973	5.1900e-003	0.0000	7.2063
Energy	0.1372	1.2225	0.8684	7.4800e-003		0.0948	0.0948		0.0948	0.0948			4,622.0899	0.1761	0.0559	4,643.1273
Mobile	12.5131	37.5022	145.3895	0.4451	30.4083	0.5997	31.0081	8.1375	0.5531	8.6906			31,248.6488	1.1174	0.0000	31,272.1144
Waste						0.0000	0.0000		0.0000	0.0000			110.4667	6.5284	0.0000	247.5629
Water						0.0000	0.0000		0.0000	0.0000			213.9660	0.4726	0.0404	236.4122
<b>Total</b>	<b>22.7446</b>	<b>38.7814</b>	<b>150.9868</b>	<b>0.4528</b>	<b>30.4083</b>	<b>0.7199</b>	<b>31.1283</b>	<b>8.1375</b>	<b>0.6733</b>	<b>8.8108</b>			<b>36,202.2687</b>	<b>8.2997</b>	<b>0.0963</b>	<b>36,406.4231</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
<b>Percent Reduction</b>	<b>10.81</b>	<b>4.05</b>	<b>4.25</b>	<b>4.61</b>	<b>4.74</b>	<b>5.19</b>	<b>4.75</b>	<b>4.74</b>	<b>5.24</b>	<b>4.78</b>	<b>0.00</b>	<b>0.00</b>	<b>10.46</b>	<b>45.10</b>	<b>26.50</b>	<b>10.74</b>

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Implement Trip Reduction Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	12.5131	37.5022	145.3895	0.4451	30.4083	0.5997	31.0081	8.1375	0.5531	8.6906			31,248.6488	1.1174	0.0000	31,272.1144

## 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse High Rise	2,940.00	2,892.00	2892.00	11,263,512	10,729,634
Enclosed Parking with Elevator	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hotel	1,895.00	2,225.00	2225.00	7,027,970	6,694,851
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Quality Restaurant	3,048.50	3,197.00	3197.00	10,237,267	9,752,031
Regional Shopping Center	14,022.40	21,600.00	21600.00	55,690,944	53,051,252
Unenclosed Parking Structure	0.00	0.00	0.00		
<b>Total</b>	<b>21,905.90</b>	<b>29,914.00</b>	<b>29,914.00</b>	<b>84,219,693</b>	<b>80,227,768</b>

## 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 High Rise	14.70	5.90	8.70	40.20	19.20	40.60	100	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	100	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	100	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	100	0	0
Unenclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510092	0.059583	0.181091	0.139410	0.042694	0.006692	0.016202	0.032692	0.001943	0.002491	0.004392	0.000576	0.002140

## 5.0 Energy Detail

### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000			3,264.6728	0.1501	0.0311	3,277.4491
Natural Gas Mitigated	0.1372	1.2225	0.8684	7.4800e-003		0.0948	0.0948		0.0948	0.0948			1,357.4172	0.0260	0.0249	1,365.6782

## 5.2 Energy by Land Use - NaturalGas

### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	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
Hotel	4.55037e+006	0.0245	0.2231	0.1874	1.3400e-003		0.0170	0.0170		0.0170	0.0170			242.8248	4.6500e-003	4.4500e-003	244.3026
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.15374e+007	0.0622	0.5656	0.4751	3.3900e-003		0.0430	0.0430		0.0430	0.0430			615.6809	0.0118	0.0113	619.4279
Regional Shopping Center	1.04928e+006	5.6600e-003	0.0514	0.0432	3.1000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003			55.9936	1.0700e-003	1.0300e-003	56.3343
Unenclosed Parking Structure	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
Condo/Townhouse High Rise	8.29997e+006	0.0448	0.3825	0.1627	2.4400e-003		0.0309	0.0309		0.0309	0.0309			442.9179	8.4900e-003	8.1200e-003	445.6134
<b>Total</b>		<b>0.1372</b>	<b>1.2225</b>	<b>0.8684</b>	<b>7.4800e-003</b>		<b>0.0948</b>	<b>0.0948</b>		<b>0.0948</b>	<b>0.0948</b>			<b>1,357.4172</b>	<b>0.0260</b>	<b>0.0249</b>	<b>1,365.6782</b>

## 5.3 Energy by Land Use - Electricity

### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse High Rise	1.94263e+006	555.9150	0.0256	5.2900e-003	558.0906
Enclosed Parking with Elevator	1.13377e+006	324.4470	0.0149	3.0900e-003	325.7167
Enclosed Parking with Elevator	295558	84.5789	3.8900e-003	8.0000e-004	84.9099
Hotel	1.11121e+006	317.9905	0.0146	3.0200e-003	319.2349
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.87873e+006	537.6289	0.0247	5.1100e-003	539.7329
Regional Shopping Center	5.0464e+006	1,444.1126	0.0664	0.0137	1,449.7642
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3,264.6728</b>	<b>0.1501</b>	<b>0.0310</b>	<b>3,277.4491</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	10.0943	0.0568	4.7289	2.1000e-004		0.0254	0.0254		0.0254	0.0254			7.0973	5.1900e-003	0.0000	7.2063

## 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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	9.9934					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
Landscaping	0.1009	0.0568	4.7289	2.1000e-004		0.0254	0.0254		0.0254	0.0254			7.0973	5.1900e-003	0.0000	7.2063
<b>Total</b>	<b>10.0943</b>	<b>0.0568</b>	<b>4.7289</b>	<b>2.1000e-004</b>		<b>0.0254</b>	<b>0.0254</b>		<b>0.0254</b>	<b>0.0254</b>			<b>7.0973</b>	<b>5.1900e-003</b>	<b>0.0000</b>	<b>7.2063</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

Use Water Efficient Landscaping

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	213.9660	0.4726	0.0404	236.4122

### 7.2 Water by Land Use

#### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	35.5224 /	144.9307	0.3344	0.0285	160.8007
High Rise	0				
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	2.6802 / 0	10.9352	0.0252	2.1500e-003	12.1326
Other Non-Asphalt Surfaces	0.437583 / 2.92882	11.0970	4.5500e-003	4.4000e-004	11.3289
Quality Restaurant	5.83184 / 0	23.7938	0.0549	4.6900e-003	26.3992
Regional Shopping Center	5.68859 / 0	23.2093	0.0536	4.5700e-003	25.7508
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>213.9660</b>	<b>0.4726</b>	<b>0.0404</b>	<b>236.4121</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	110.4667	6.5284	0.0000	247.5629

### 8.2 Waste by Land Use

#### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	138	28.0128	1.6555	0.0000	62.7784
High Rise					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	68.44	13.8927	0.8210	0.0000	31.1344
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	25.75	5.2270	0.3089	0.0000	11.7141
Regional Shopping Center	312.005	63.3342	3.7429	0.0000	141.9360
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>110.4667</b>	<b>6.5284</b>	<b>0.0000</b>	<b>247.5629</b>

## 9.0 Operational Offroad

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



## Appendix C Geotechnical Investigation

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Geotechnical  
Engineering

Geology

Hydrogeology

Earthquake  
Engineering

Materials Testing &  
Inspection

Forensic Services

## TECHNICAL MEMORANDUM

**Project Name:** EN007 Flair Spectrum Development  
**Prepared for:** Ms. Ninel Vergazova, Flair Spectrum LLC  
**Prepared by:** Kul Bhushan, Ph. D., G.E.  
**Date:** May 10, 2013  
**Subject:** Preliminary Geotechnical Information

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### INTRODUCTION

Group Delta Consultants is pleased to present preliminary geotechnical information for the proposed Flair Spectrum mixed-use residential development located at 9400 Flair Drive in El Monte, California. This feasibility level study presents preliminary conclusions and recommendations based on a review of available geotechnical information from our previous work in the site vicinity. No new geotechnical investigation or laboratory testing was performed for this study. No adverse geotechnical conditions were identified that would preclude site development (there may be environmental constraints, however). A formal geotechnical investigation, including testing of soil samples collected from the site, and engineering analyses, should be performed during the design phase of the project. This report discusses geotechnical conditions at the site only. Environmental issues are outside the scope of this study.

### PROJECT DESCRIPTION

The site consists of a 14.7 acre parcel located south of I-10 in the City of El Monte, as shown on the Site Location Map, Figure 1. The site is located southeast of the intersection between Flair Drive and Rio Hondo Avenue, and is bordered by existing commercial properties to the south and east. The site vicinity is shown in more detail in Figure 2.

The commercial property was used to manufacture aircraft fuel tanks and related assemblies since the 1950s, and is currently part of the South El Monte Operable Unit of the San Gabriel Superfund site. Various underground storage tanks and hazardous materials have previously been identified at the site that may need remediation prior to development. Environmental remediation considerations will be addressed separately.

The site will be subdivided into eight parcels, including a 300-room hotel with 24,000 ft<sup>2</sup> of public space for banquets, spa amenities and a nightclub, and a separate 250,000 ft<sup>2</sup> high-end commercial retail center. Four 10,000 ft<sup>2</sup> restaurants will be constructed along the freeway frontage, and approximately 80,000 ft<sup>2</sup> of commercial office space will be provided.

Two high-rise luxury condominiums with a total of 600 units will be constructed, along with an associated parking structure. Details of the structures are not yet available.

## **SITE AND SUBSURFACE CONDITIONS**

### **Site Conditions**

The site is located southeast of the intersection between Flair Drive and Rio Hondo Avenue as shown on the Site Location Map, Figure 1. The southern and eastern edges of the property are bordered by existing commercial properties (see Figure 2). The current layout of the site is shown on the Exploration Plan, Figure 3A.

The site contains the remnants of a manufacturing facility that was abandoned in 2010. Two of the old single-story commercial buildings remain on site, along the northern and southern property boundaries, as shown in Figure 3A. These masonry structures appear to be supported by conventional shallow concrete foundations with reinforced concrete slabs-on-grade. Remnants of other concrete building slabs and foundations are evident in the central courtyard area between the two remaining structures. Earlier satellite images show the layout of the property prior to abandonment and partial demolition (see Figure 3B). Various asphalt concrete parking and driveway areas cover most of the site, with landscaping along the public streets. The site slopes down gently to the south, with elevations ranging from about 250 to 260 feet above mean sea level (MSL). The perimeter of the property is currently surrounded by chain-link fencing.

### **Regional Geology**

The site is located within the Los Angeles Basin section of the Peninsular Range Geomorphic Province of southern California. The Peninsular Ranges are characterized by a series of northwest trending mountain ranges separated by valleys. The range geology consists of granitic rock that intrudes into the older metamorphic rocks. The valleys are typified by deep alluvial basins consisting of interbedded gravel, sand, silt, and clay. The Los Angeles Basin is underlain by Quaternary-age alluvial fan deposits, as well as thousands of feet of Tertiary marine and nonmarine sediments.

The general geology in the site vicinity is shown on the Regional Geologic Map, Figure 4. The site is situated north of the confluence of three concrete lined creek channels. The Rio Hondo channel and the Eaton Wash meet roughly 1,500 feet east of the site (south of I-10). The Rubio Wash combines with the flow from these two channels about 2,000 feet southwest of the site. All three channels ultimately flow into the San Gabriel River to the south. The locations of these river channels are shown on the Regional Geologic Map.



The geologic map indicates that the site is underlain by Young Alluvial Fan and Alluvial Wash Deposits (Map Symbols Qyf and Qyw) of late Pleistocene to Holocene age, with fill soils (Qaf) along the I-10 corridor. The alluvial sediments are associated with the nearby rivers, and are characterized by loose to medium dense, poorly consolidated deposits of gravel, sand and silt. These sediments become increasingly dense or stiff with depth.

### **Subsurface Conditions**

Group Delta Consultants has previously performed several geotechnical investigations in close proximity to the site, as described in the referenced reports (GDC, 1998ab). The closest investigation (GDC, 1998a) is located east of the intersection of the Telstar Avenue and Aerojet Avenue as shown in Figure 2. The available subsurface data includes a total of six exploratory borings and five cone penetration test (CPT) soundings. In preparing this report, we have reviewed the relevant boring logs, CPT soundings and laboratory test data from these investigations.

Alluvium was encountered in all of our previous subsurface explorations conducted within the site vicinity. The alluvium generally consisted of interbedded deposits of silty and clayey sand (SM and SC) as well as sandy silt and lean clay (ML and CL). In the upper 25 feet, the clays were typically soft to stiff in consistency, whereas the sand and silts were generally loose to medium dense. Standard Penetration Test (SPT) blow counts in the granular alluvial deposits typically ranged from about 8 to 18. However, the density of the alluvium generally increased with depth. At depths of more than 25 feet below grade, the clays were stiff to very stiff in consistency, and the sands were typically dense with SPT blow counts of 25 to 30 or more. The surface of the site is covered with asphalt concrete pavements as well as various concrete slabs and sidewalks, which are likely underlain by aggregate base.

Laboratory tests and the SPT data indicate that the surficial alluvial deposits are moderately compressible. These soils may not be suitable for the direct support of heavy foundation loads (deep foundations may be needed for the larger structures). These tests also indicate that the Liquid Limit of the clays may vary from about 30 to 46, with a Plasticity Index of between 16 and 25. The previous testing did not indicate a high water soluble sulfate content, although the soils may be corrosive. An R-Value of 24 was determined on one sample taken from the nearby sites. No Expansion Index test data was available for review. However, our previous experience indicates that the sandy soils will likely have a low expansion potential, whereas the silts and clays may be moderately or highly expansive. In order to better assess the specific geotechnical conditions at the subject site, a field investigation should be performed prior to design with site specific laboratory testing.

### **Groundwater**

The historic high groundwater level at the site is approximately 5 feet below grade, as shown on the High Groundwater Map, Figure 5A. The historic high groundwater was apparently recorded before the nearby drainages were channelized. Groundwater was



encountered 1998 within the 11 explorations we conducted near the site at depths ranging from about 27 to 30 feet below grade (GDC, 1998ab). This corresponds to groundwater elevations of approximately 225 to 233 feet MSL. The City of El Monte has recently released a study that shows current groundwater elevations of about 170 feet MSL at the subject site, which corresponds to a depth of 80 or more feet below grade (see Figure 5B).

It should be noted that changes in seasonal rainfall totals, or water releases from upstream dams may cause groundwater levels to fluctuate over time in the site vicinity. Groundwater levels near the site rose 60 to 70 feet in 1966, 1977, 1992 and 2005, as indicated by the nearby well data reproduced in Figure 5B.

## **GEOLOGIC HAZARDS AND SEISMICITY**

### **Ground Rupture**

Ground rupture is the result of movement on an active fault reaching the ground surface. The site is not located within an Alquist-Priolo Earthquake Fault Zone. Consequently, ground rupture is not considered to be a substantial geologic hazard at the site.

### **Seismicity**

The site is located at latitude 34.0630° north and longitude 118.0704° west. The site is situated within a highly active seismic region, with four known active faults located within 10 km of the property. The nearest known active faults include the Lower Elysian Park and Puente Hills blind thrust faults which are located roughly 4.2 and 9.3 km below the site. The Whittier section of the Elsinore fault zone is located about 7.0 km to the southwest, and the Raymond fault is located about 7.4 km north of the property. The known active faults in close proximity to the site are shown on the Local Fault Map, Figure 6.

The United States Geologic Survey (USGS) has developed an interactive website that provides Next Generation Attenuation (NGA) probabilistic seismic analyses based on the site location and shear wave velocity (USGS, 2009). Using an estimated shear wave velocity of 300 m/s from our previous experience in the site vicinity, the USGS website suggests that the peak ground accelerations with a 2, 5 and 10 percent probability of exceedence in a 50 year period are 0.93g, 0.70g and 0.55g, respectively. These risk levels are often referred to as the *Maximum Considered*, *Upper Bound* and *Design Basis Earthquakes*, respectively.

The proposed structures should be designed in general accordance with the seismic provisions of the 2010 California Building Code (CBC) for Seismic Zone 4. Based on the findings of the previous subsurface explorations in the site vicinity, it is our opinion that a 2010 CBC Site Class D will likely apply to the general site conditions. The USGS mapped spectral ordinates  $S_S$  and  $S_1$  equal 1.285 and 0.726, respectively. For a Site Class D, the spectral design parameters  $S_{DS}$  and  $S_{D1}$  equal 0.857 and 0.726. The peak ground acceleration



from the design spectrum may be taken as 40 percent of  $S_{DS}$  or 0.343g. The preliminary 2010 CBC Design Spectrum is shown in Table 1.

### **Liquefaction and Dynamic Settlement**

Liquefaction involves the sudden loss in strength of a saturated, cohesionless soil (sand and non-plastic silts) caused by the build-up of pore water pressure during cyclic loading, such as that produced by an earthquake. This increase in pore water pressure can temporarily transform the soil into a fluid mass, resulting in vertical settlement and possible lateral ground deformations. Typically, liquefaction occurs in areas where there are loose to medium dense sands and silts, and where the depth to groundwater is less than 50 feet from the surface. In summary, three simultaneous conditions are required for liquefaction:

- Historic high groundwater within 50 feet of the ground surface
- Liquefiable soils such as loose to medium dense sands
- Strong shaking, such as that caused by an earthquake

According to the California Geologic Survey (CGS), the historic high groundwater depth at the site is only 5 feet, as shown in Figure 5A. Since the historic groundwater is based on measurements before the various drainages were channelized, the current groundwater may be applicable for liquefaction analyses. Nearby borings suggest that the upper 20 to 30 feet of alluvial soil at the site may contain loose, granular soils that would be considered susceptible to liquefaction and dynamic settlement. The site is surrounded by several nearby active faults that could produce strong ground shaking. Furthermore, the CGS Seismic Hazard Zone Map for the El Monte 7.5-minute Quadrangle indicates that the site may have a history of liquefaction, as shown on the Liquefaction Map, Figure 7. The potential for liquefaction and dynamic settlement will depend on the assumption of the design groundwater and should be quantified using data obtained from the proposed borings and CPT soundings during the design phase of the project.

### **Soil Collapse Potential**

Loose sands with some clay binder, a low moisture content, and low density may be prone to collapse and settlement when saturated by irrigation or a rise in groundwater levels. Alluvial fan deposits may contain collapse sensitive materials. Consolidation tests performed on samples from the nearby projects sites indicated that the alluvial soils may be susceptible to collapse. Moisture content, density, and consolidation tests should be conducted during the design stage of the project to investigate the collapse potential at the site.

### **Seismic Slope Stability**

The site is essentially flat, and no new slopes are anticipated. Therefore, seismic slope instability is not considered a hazard at the site. This is consistent with the CGS Seismic



Hazard Zone Map for the El Monte 7.5-minute Quadrangle, which shows that the site is not located within an area prone to seismically induced landslides.

## **PRELIMINARY GEOTECHNICAL RECOMMENDATIONS**

### **Site Preparation and Foundations**

Based on the anticipated soil conditions lightly loaded structures may be supported on shallow foundations consisting of spread footings with concrete slabs-on-grade. The existing single-story structures at the project site appear to be founded on this type of shallow foundations. Group Delta recommended the use of shallow spread footings and slabs-on-grade for light structures on nearby sites with a bearing capacity of 2,500 psf.

Due to the presence of loose soil near the ground surface, some remedial grading will likely be required prior to foundation construction. Typical removal and recompaction depths of 3 to 5 feet are anticipated for soils that exhibited a very low collapse potential. However, in the event that the soil profile at the site includes loose soil with moderate collapse potential, or soils that are prone to large dynamic settlements or soil liquefaction, additional depths of removal and recompaction may be required. For heavily loaded high-rise structures, deep foundations using driven piles may be used. Based on the nearby project (GDC, 1998a), 14-in. square prestressed concrete piles with a length of 30 to 40 ft may be adequate to support medium to high-rise building. Final site preparation and foundation recommendations should be provided based on the actual subsurface conditions indicated by the site investigation during the design development phase. The approximate locations of the proposed borings and CPT soundings are shown in Figure 3A.

### **Slab On-Grade and Hardscape**

Expansive clay soils, where present, have the potential to swell or shrink in response to changes in moisture content. These volume changes can result in damage to slabs and hardscape features. If expansive soils are disclosed near grade by the site investigation, the slabs-on-grade may need to be thickened, heavily reinforced or post-tensioned, and additional stiffener beams may need to be added. Alternatively, a few feet of non-expansive soils may be placed directly beneath the heave sensitive concrete slabs. Site preparation and slab-on-grade recommendations should be provided based on the actual expansive soils conditions indicated by the site investigation.

### **Earthwork**

Remedial earthwork, grading, foundation and utility trench excavations are anticipated to be easily achievable with conventional equipment. Grading and earthwork should be conducted in general accordance with the applicable local grading ordinance and the requirements of the current California Building Code. Details of remedial earthwork and grading should be provided during the design stage of the project.



## Temporary Excavations

In general, temporary construction excavations may be made at a 1:1 slope without shoring to a depth of 5 ft below the adjacent surrounding grade provided the excavations are above the water table. For deeper cuts and below the water table, the slopes should be properly shored or sloped back at least 2:1 (horizontal:vertical) or flatter. No surcharge loads should be permitted within a horizontal distance equal to the height of cut or 5 ft from the top of the slopes, whichever is greater, unless the cut is shored. Excavations that extend below an imaginary plane inclined at 45 degrees below the edge of any adjacent existing site foundations should be properly shored to maintain support of the adjacent structures. The contractor will be responsible for the design of the shoring and dewatering (if necessary). All excavation and shoring systems should meet the minimum requirements of the Occupational Safety and Health (OSHA) Standards.

For design of temporary shoring, we recommend a uniform rectangular lateral pressure of 25 H psf above water table, where H is the depth of the excavation in feet. In addition, 35 percent of any surcharge or traffic loads should be included as a uniform rectangular loading on the shoring. For excavations up to 16 ft deep, cantilever shoring may be used. For deeper excavations, shoring with one or two levels of tie-backs may be needed.

## Pavements

Asphalt concrete or Portland cement concrete pavement sections should be designed for the appropriate Traffic Index and subgrade R-Value. Typically, the upper 12 inches of subgrade soil would be scarified immediately prior to constructing the pavements, and compacted to at least 95 percent of the maximum dry density based on ASTM D1557. Aggregate base should also be compacted to 95 percent relative compaction, and should conform to Section 200-2 of the Standard Specifications for Public Works Construction (SSPWC).

Our experience in the site vicinity suggests that the subgrade soils may include mixtures of sand, silt and clay. For the preliminary pavement sections presented below, we assumed a subgrade R-Value of 24 based on previous testing in the site vicinity (GDC, 1998ab). The actual pavement subgrade should be sampled and tested for R-Value during the geotechnical investigation, and again during fine grading. The following asphalt concrete pavement section alternatives may be used for preliminary cost-estimating purposes.



<b>PAVEMENT TYPE</b>	<b>TRAFFIC INDEX</b>	<b>ASPHALT SECTION</b>	<b>BASE SECTION</b>
Passenger Car Areas	5.0	3 Inches	6 Inches
Truck Traffic Areas	6.0	4 Inches	8 Inches
Fire Truck Lane	7.0	4 Inches	11 Inches

Where Portland cement concrete pavements are used, the pavement section should consist of at least 6 inches of concrete over 4 inches of aggregate base. Crack control joints should be constructed on a maximum spacing of 10 feet, each way. Concentrated traffic areas such as loading docks should be reinforced with No. 4 bars on 18-inch centers, each way.

#### **RECOMMENDATIONS FOR FINAL DESIGN STUDY**

During the design phase of the project, a site investigation consisting of a minimum of five exploratory borings and five cone penetration test (CPT) soundings should be performed to depths of at least 50-feet below grade (or refusal). The approximate locations of the proposed borings and CPT soundings are shown on the Exploration Plan, Figure 3A. The geotechnical investigation should include laboratory testing of soil samples collected from the borings. Laboratory testing should include moisture content, dry density, particle size analysis, Atterberg Limits, soil corrosion, Expansion Index, direct shear, collapse potential and R-Value for pavement section design.

In summary, the key issues to be addressed in the geotechnical investigation include:

- Liquefaction and Dynamic Settlement
- Soil Collapse Potential
- Soil Expansion Potential
- Soil Corrosion Potential
- Site Preparation and Remedial Grading
- Foundation Type, Bearing Capacity, Settlement and Lateral Resistance
- R-Value and Pavement Section Design



The following Table and Figures are attached and complete this letter:

**TABLE**

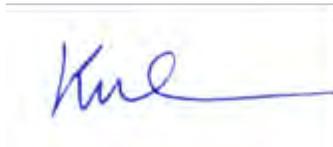
Table 1                      CBC 2010 Acceleration Response Spectra

**FIGURES**

Figure 1                      Site Location Map  
Figure 2                      Site Vicinity Map  
Figure 3A                     Exploration Plan  
Figure 3B                     Site Plan (2003)  
Figure 4                      Regional Geologic Map  
Figure 5A                     High Groundwater Map  
Figure 5B                     Current Groundwater  
Figure 6                      Local Fault Map  
Figure 7                      Liquefaction Map

Should you have any questions regarding this report, please call us at (949) 450-2100.

**GROUP DELTA CONSULTANTS, INC.**



Kul Bhushan, Ph. D., G.E.  
Senior Principal



## REFERENCES

1. California Department of Transportation (2013). Caltrans ARS Online (V2.2.06), *Based on the Average of (2) NGA Attenuation Relationships, Campbell & Bozorgnia & Chiou & Youngs*, <http://dap3.dot.ca.gov/ARS Online/>.
2. California Department of Conservation, Division of Mines and Geology (1992). *Fault Rupture Hazard Zones in California, Alquist-Priolo Special Studies Zone Act of 1972*: California Division of Mines and Geology, Special Publication 42.
3. California Department of Conservation, Division of Mines and Geology (1998). *Seismic Hazard Zone Report for the El Monte 7.5-Minute Quadrangle, Los Angeles County, California*, Seismic Hazard Zone Report 24.
4. California Department of Conservation, Division of Mines and Geology (1999). *State of California, Seismic Hazard Zone Map, El Monte Quadrangle*, March 25.
5. City of El Monte (2011). *2010 Urban Water Management Plan, City of El Monte*, TKE Engineering, dated June 14.
6. Group Delta Consultants (1998a). *Geotechnical Investigation, El Monte D.P.S.S. Building and Parking Structure Site, El Monte, California*, GDC Project No. I-171, dated November 19.
7. Group Delta Consultants (1998b). *Geotechnical Investigation, El Monte Shopping Center Site, 9150 Flair Drive, El Monte, CA*, GDC Project No. I-171, December 10.
8. Group Delta Consultants (2000). *Geotechnical Investigation, CTS Retail Shopping Center Site, 10152 E. Garvey Avenue, El Monte, CA*, Project No. I-230, January 31.
9. Group Delta Consultants (2013). *Proposal for Preliminary Geotechnical Services for Proposed Development at 9400 Flair Drive, City of El Monte, County of Los Angeles*, Proposal No. EN13-006, April 25.
10. International Conference of Building Officials (2010). 2010 California Building Code.
11. United States Geological Survey (2009). Earthquake Hazards Program, *Based on Three NGA Relationships, Boore & Atkinson (2008), Campbell & Bozorgnia (2008) & Chiou & Youngs (2008)* from <http://eqint.cr.usgs.gov/deaggint/2008>.
12. Yerks, R.F., and Campbell, R.H. (2005). *Preliminary Geologic Map of the Los Angeles 30' by 60' Quadrangle, Southern California*, USGS.



***TABLES***

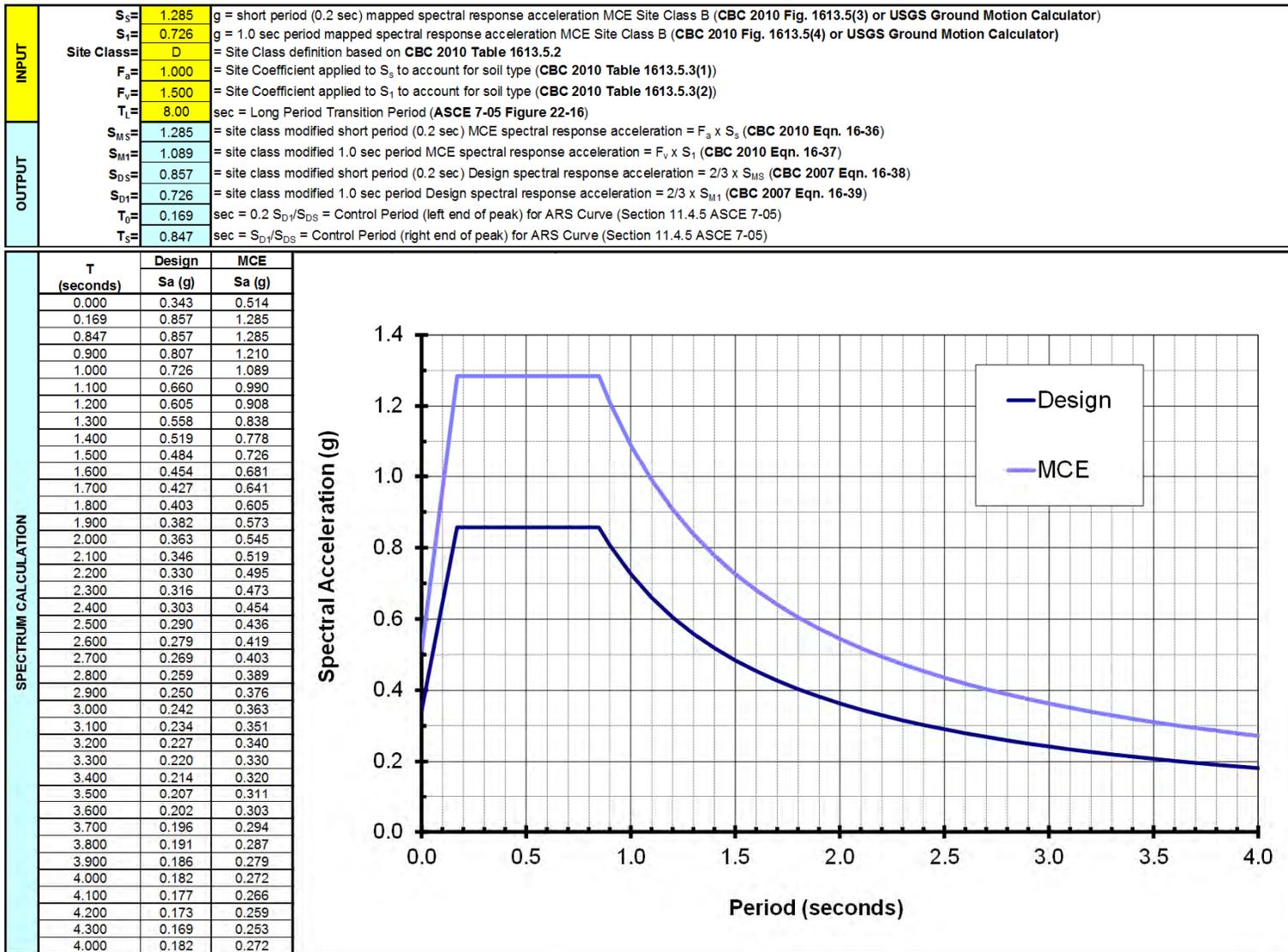
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**TABLE 1  
2010 CBC ACCELERATION RESPONSE SPECTRA**

**GDC PROJECT NO. EN007, Flair Spectrum Development**

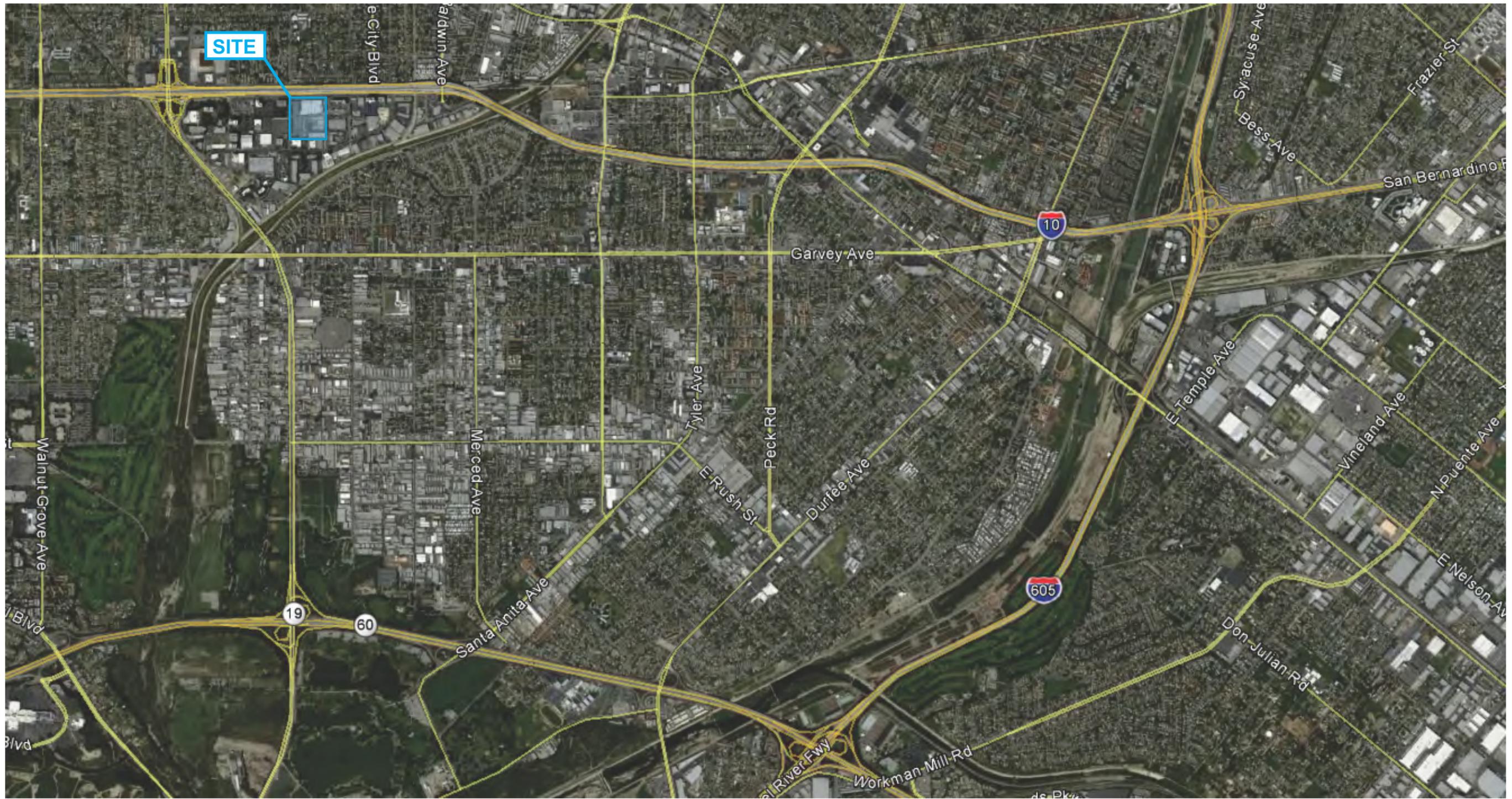
**Site Latitude: 34.0630**

**Site Longitude: -118.0704**



***FIGURES***

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**EXPLANATION:**

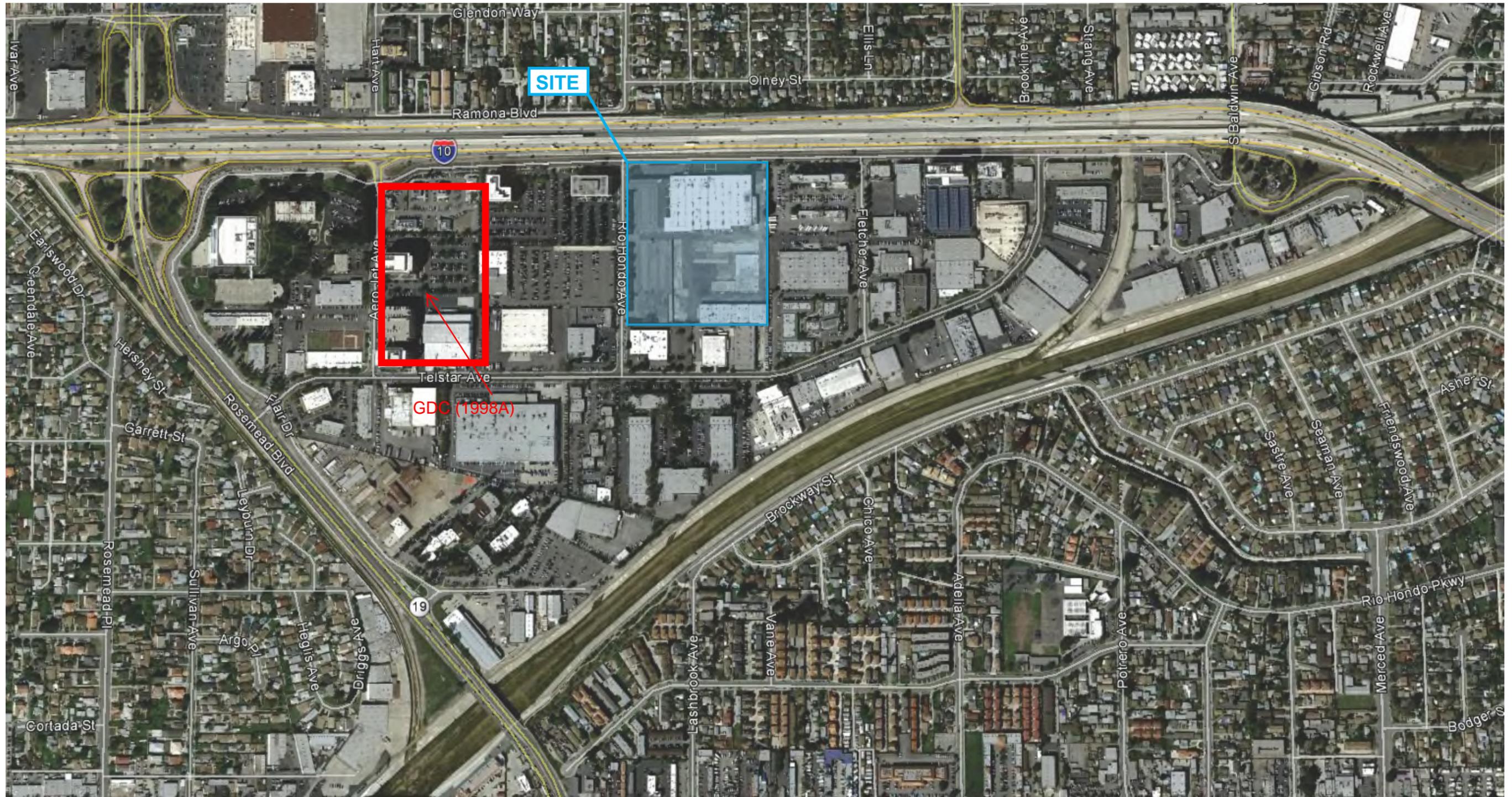
- Approximate location of proposed Flair Spectrum project (Latitude 34.0630 °N, -118.0704 °W)



GROUP DELTA CONSULTANTS, INC.  
 ENGINEERS AND GEOLOGISTS  
 9245 ACTIVITY ROAD, SUITE 103  
 SAN DIEGO, CA 92126 (858) 536-1000  
 PROJECT NAME  
 9400 Flair Drive Development  
 Flair Spectrum, LLC

PROJECT NUMBER  
 EN007  
 DOCUMENT NUMBER  
 13-0097  
 FIGURE NUMBER  
 1

**SITE LOCATION MAP**



**EXPLANATION:**

- Approximate location of proposed Flair Spectrum project (Latitude 34.0630 °N, -118.0704 °W)



GROUP DELTA CONSULTANTS, INC.  
 ENGINEERS AND GEOLOGISTS  
 9245 ACTIVITY ROAD, SUITE 103  
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 PROJECT NAME  
 9400 Flair Drive Development  
 Flair Spectrum, LLC

PROJECT NUMBER  
 EN007  
 DOCUMENT NUMBER  
 13-0097  
 FIGURE NUMBER  
 2

**SITE VICINITY PLAN**

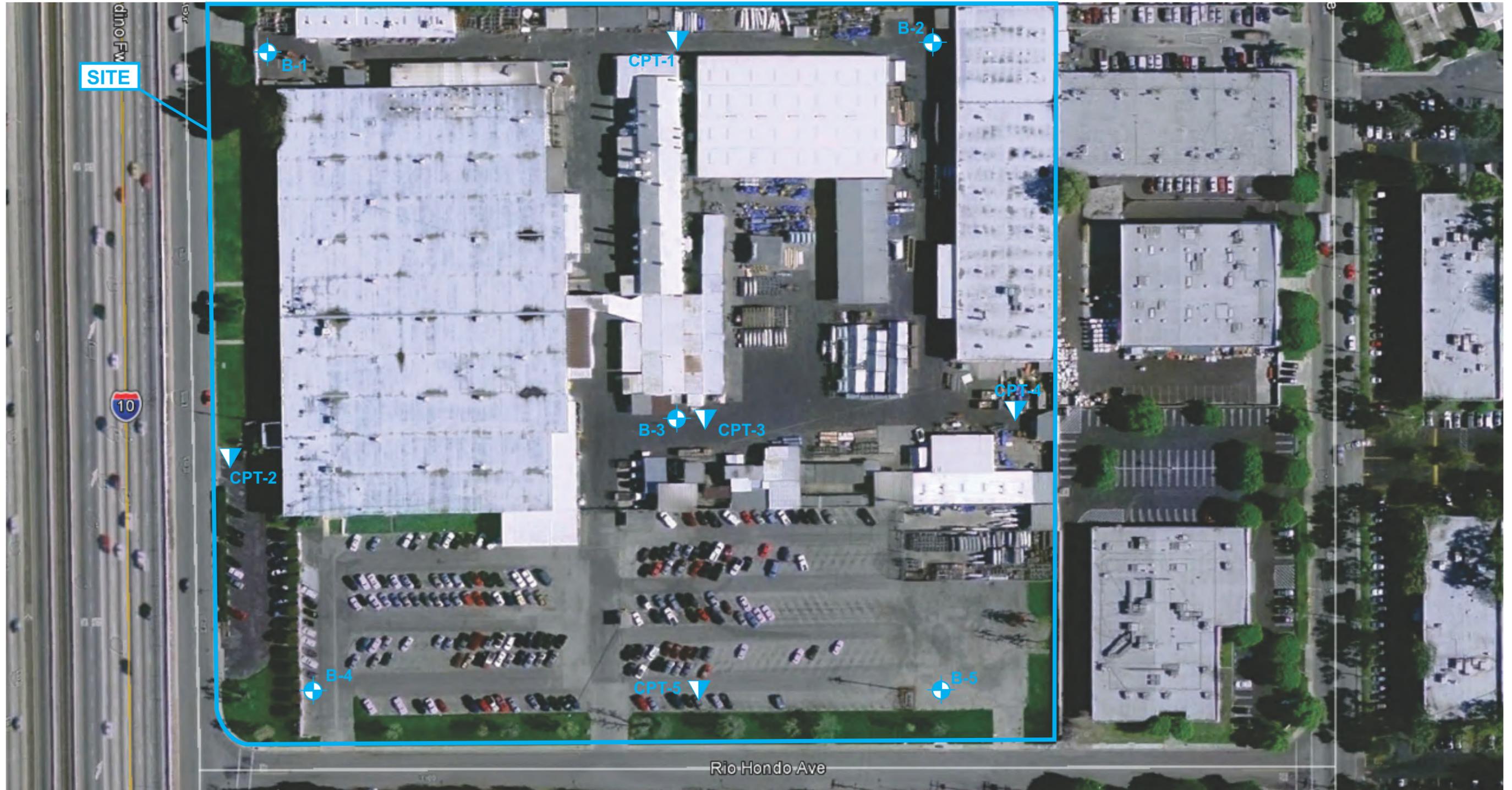


**EXPLANATION:**

- B-5**  Approximate location of proposed exploratory boring.
- CPT-5**  Approximate location of proposed Cone Penetrometer Test (CPT) sounding.

N   
NO SCALE

	GROUP DELTA CONSULTANTS, INC. ENGINEERS AND GEOLOGISTS 9245 ACTIVITY ROAD, SUITE 103 SAN DIEGO, CA 92126 (858) 536-1000	PROJECT NUMBER <b>EN007</b>
	PROJECT NAME 9400 Flair Drive Development Flair Spectrum, LLC	DOCUMENT NUMBER <b>13-0097</b>
		FIGURE NUMBER <b>3A</b>
<b>EXPLORATION PLAN</b>		

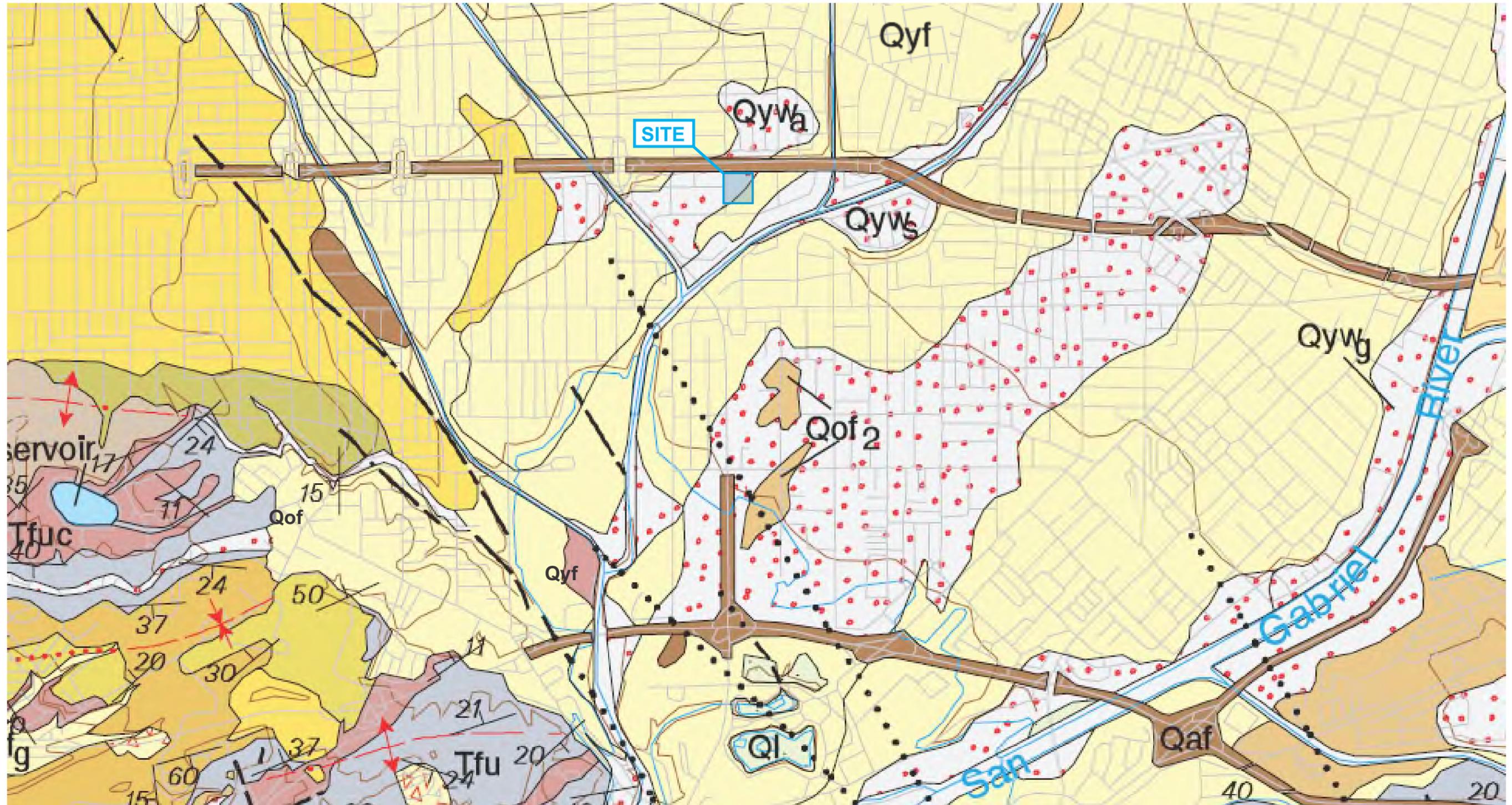


**EXPLANATION:**

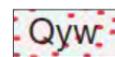
- B-5**  Approximate location of proposed exploratory boring.
- CPT-5**  Approximate location of proposed Cone Penetrometer Test (CPT) sounding.

  
NO SCALE

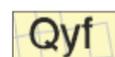
	GROUP DELTA CONSULTANTS, INC. ENGINEERS AND GEOLOGISTS 9245 ACTIVITY ROAD, SUITE 103 SAN DIEGO, CA 92126 (858) 536-1000	PROJECT NUMBER <b>EN007</b>
	PROJECT NAME 9400 Flair Drive Development Flair Spectrum, LLC	DOCUMENT NUMBER <b>13-0097</b>
		FIGURE NUMBER <b>3B</b>
<b>2003 SITE PLAN</b>		



**EXPLANATION:**



Young Alluvial Wash Deposits



Young Alluvial Fan Deposits



Artificial Fill



NO SCALE

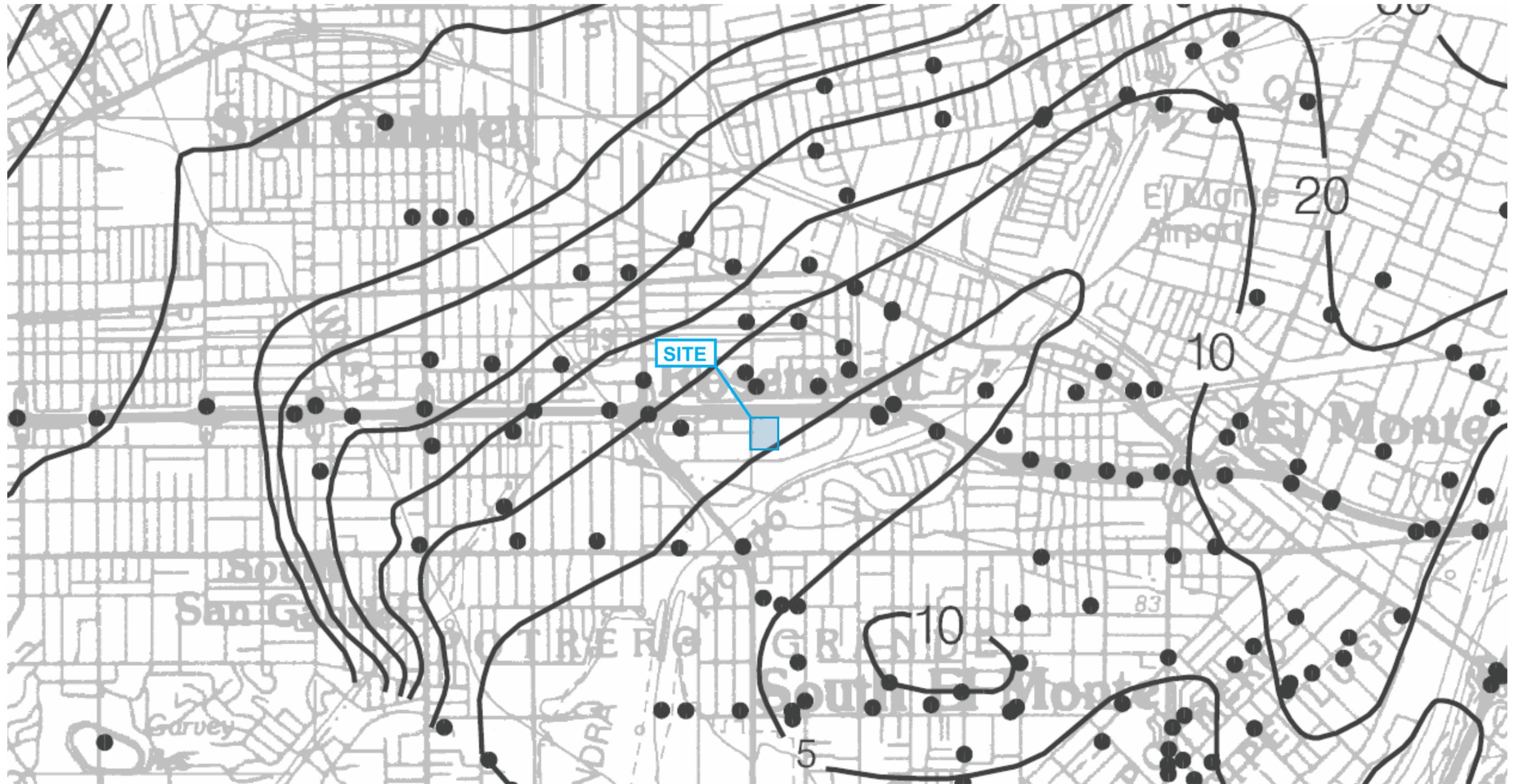


GROUP DELTA CONSULTANTS, INC.  
ENGINEERS AND GEOLOGISTS  
9245 ACTIVITY ROAD, SUITE 103  
SAN DIEGO, CA 92126 (858) 536-1000  
PROJECT NAME  
9400 Flair Drive Development  
Flair Spectrum, LLC

PROJECT NUMBER  
EN007  
DOCUMENT NUMBER  
13-0097  
FIGURE NUMBER  
4

REFERENCE: Yerks et al. (2005). Geologic Map of the Los Angeles 30' x 60' Quadrangle, Southern California

**REGIONAL GEOLOGIC MAP**



**EXPLANATION:**

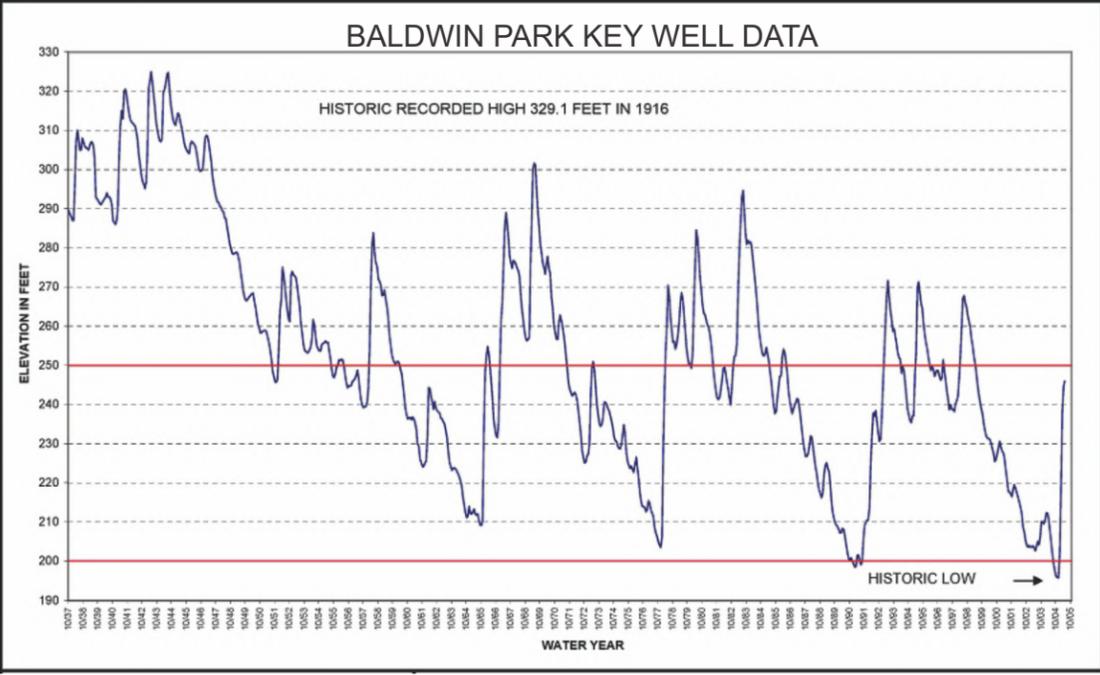
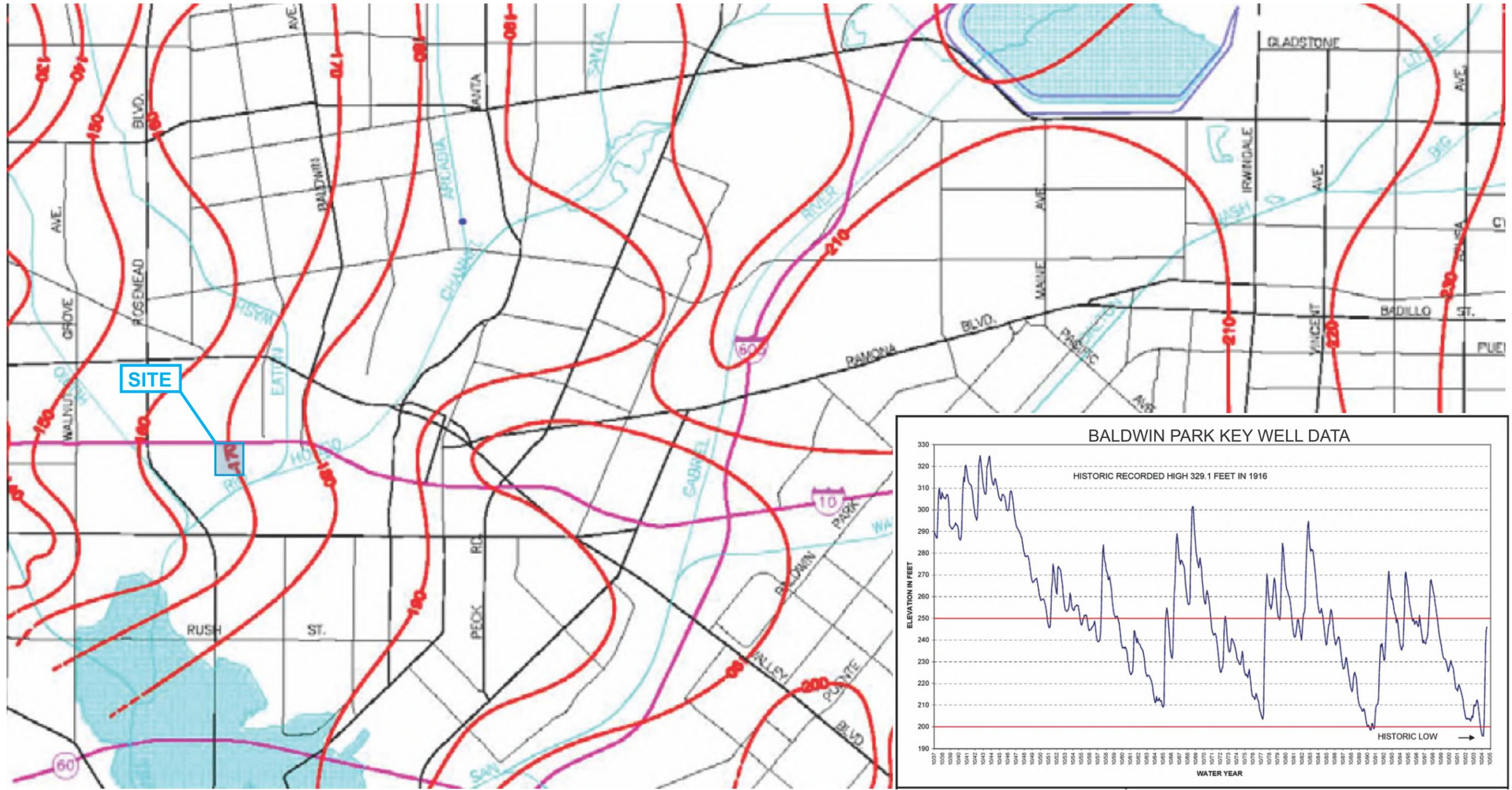
- Approximate location of borehole used to collect groundwater data.
- 5 — Approximate depth to historic high groundwater in feet.

**REFERENCE:** California Geologic Survey (2005). Seismic Hazard Zone Report for the El Monte 7.5 Minute Quadrangle, Los Angeles County, California.

N  
NO SCALE

	GROUP DELTA CONSULTANTS, INC. ENGINEERS AND GEOLOGISTS 9245 ACTIVITY ROAD, SUITE 103 SAN DIEGO, CA 92126 (858) 536-1000	PROJECT NUMBER <b>EN007</b>
	PROJECT NAME 9400 Flair Drive Development Flair Spectrum, LLC	DOCUMENT NUMBER <b>13-0097</b>
		FIGURE NUMBER <b>5A</b>

**HIGH GROUNDWATER MAP**



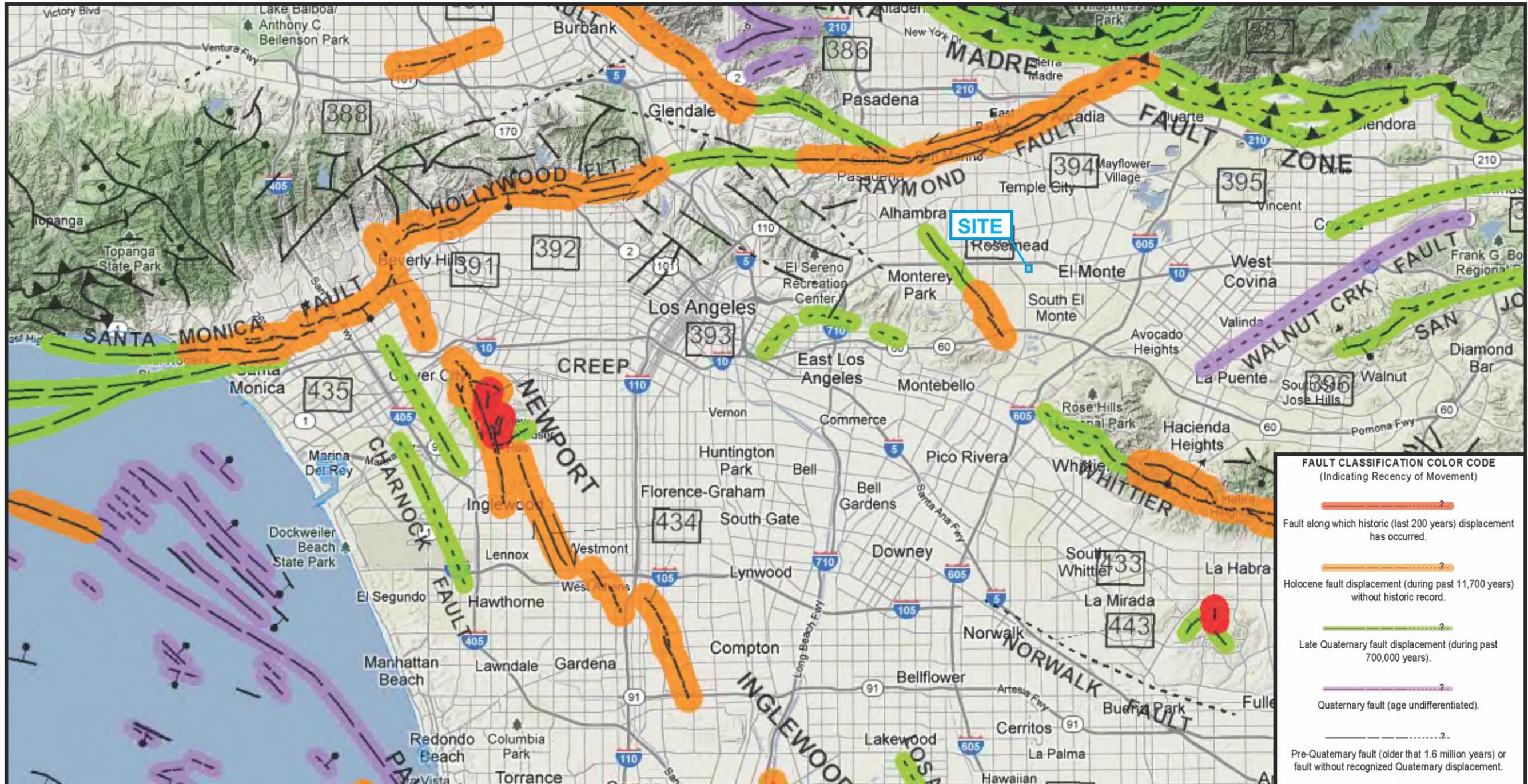
**EXPLANATION:**

Approximate elevation of current groundwater table in feet.



	GROUP DELTA CONSULTANTS, INC. ENGINEERS AND GEOLOGISTS 9245 ACTIVITY ROAD, SUITE 103 SAN DIEGO, CA 92126 (858) 536-1000		PROJECT NUMBER <b>EN007</b>
	PROJECT NAME 9400 Flair Drive Development Flair Spectrum, LLC		DOCUMENT NUMBER <b>13-0097</b>
			FIGURE NUMBER <b>5B</b>
<b>CURRENT GROUNDWATER</b>			

REFERENCE: City of El Monte (2011). 2010 Urban Water Management Plan, City of El Monte, TKE Engineering, June 14.



**FAULT CLASSIFICATION COLOR CODE**  
(Indicating Recency of Movement)

- Fault along which historic (last 200 years) displacement has occurred.
- Holocene fault displacement (during past 11,700 years) without historic record.
- Late Quaternary fault displacement (during past 700,000 years).
- Quaternary fault (age undifferentiated).
- Pre-Quaternary fault (older than 1.6 million years) or fault without recognized Quaternary displacement.

**2010 FAULT ACTIVITY MAP OF CALIFORNIA**

California Geological Survey,  
Geologic Data Map No. 6

Compilation and Interpretation by:  
Charles W. Jennings and William  
A. Bryant

Graphics by: Milind Patel, Ellen  
Sander, Jim Thompson, Barbara  
Wanish and Milton Fonseca

**EXPLANATION**

Fault traces on land are indicated by solid lines where well located, by dashed lines where approximately located or inferred, and by dotted lines where concealed by younger rocks or by lakes or bays. Fault traces are queried where continuation or existence is uncertain.

**ADDITIONAL FAULT SYMBOLS**

- Bar and ball on downthrown side (relative or apparent).
- Arrows along fault indicate relative or apparent direction of lateral movement.
- Arrow on fault indicates direction of dip.
- Low angle fault (barbs on upper plate).

N  
NO SCALE



**GROUP DELTA CONSULTANTS, INC.**  
ENGINEERS AND GEOLOGISTS  
9245 ACTIVITY ROAD, SUITE 103  
SAN DIEGO, CA 92126 (858) 536-1000

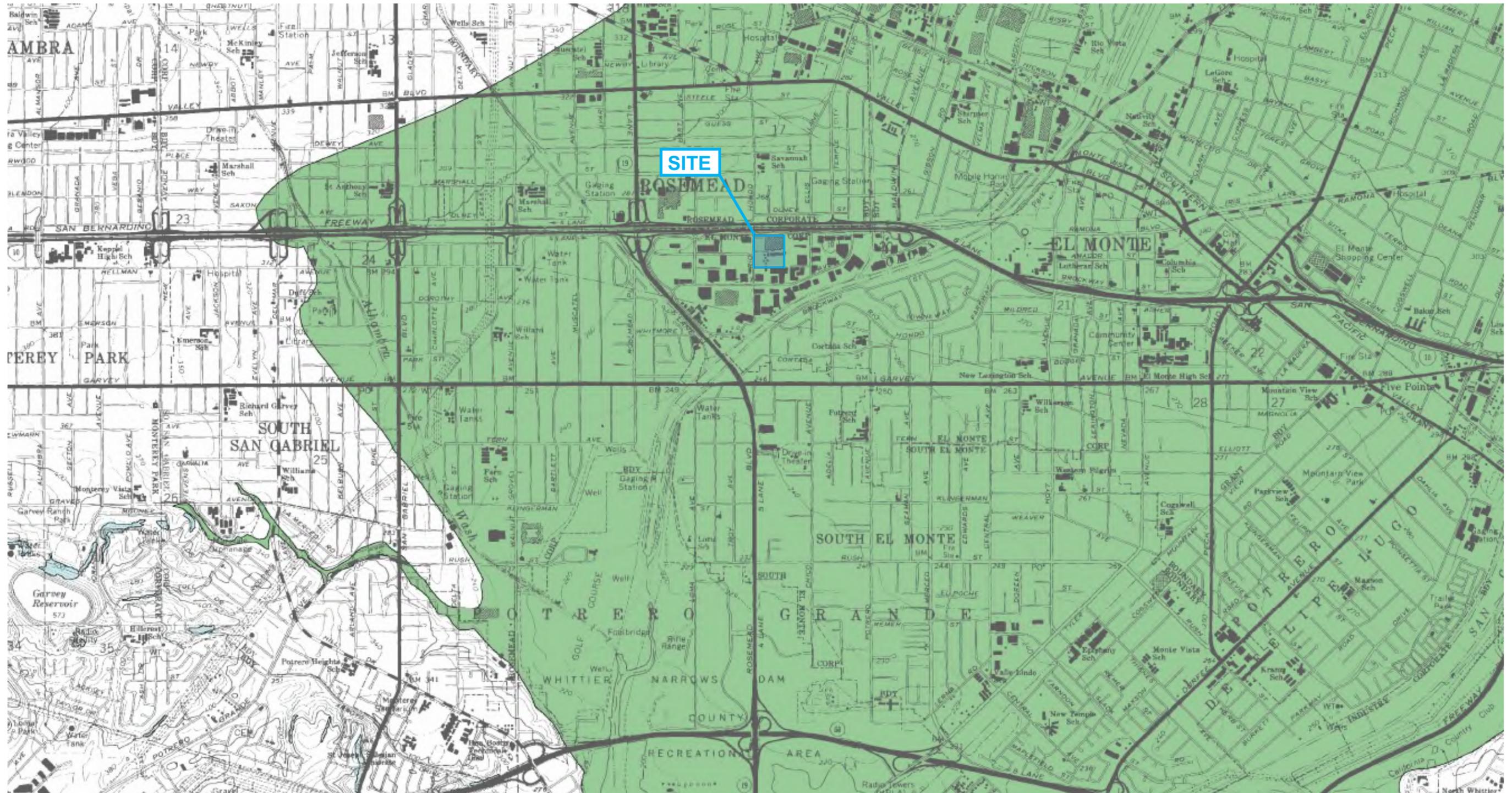
PROJECT NAME  
9400 Flair Drive Development  
Flair Spectrum, LLC

PROJECT NUMBER  
**EN007**

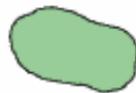
DOCUMENT NUMBER  
**13-0097**

FIGURE NUMBER  
**6**

**LOCAL FAULT MAP**



**EXPLANATION:**



Areas where historic liquefaction has occurred, or where local geotechnical and groundwater conditions indicate that the potential exists for liquefaction.

**REFERENCE:** California Geologic Survey (2005). Seismic Hazard Zone Report for the El Monte 7.5 Minute Quadrangle, Los Angeles County, California.



NO SCALE



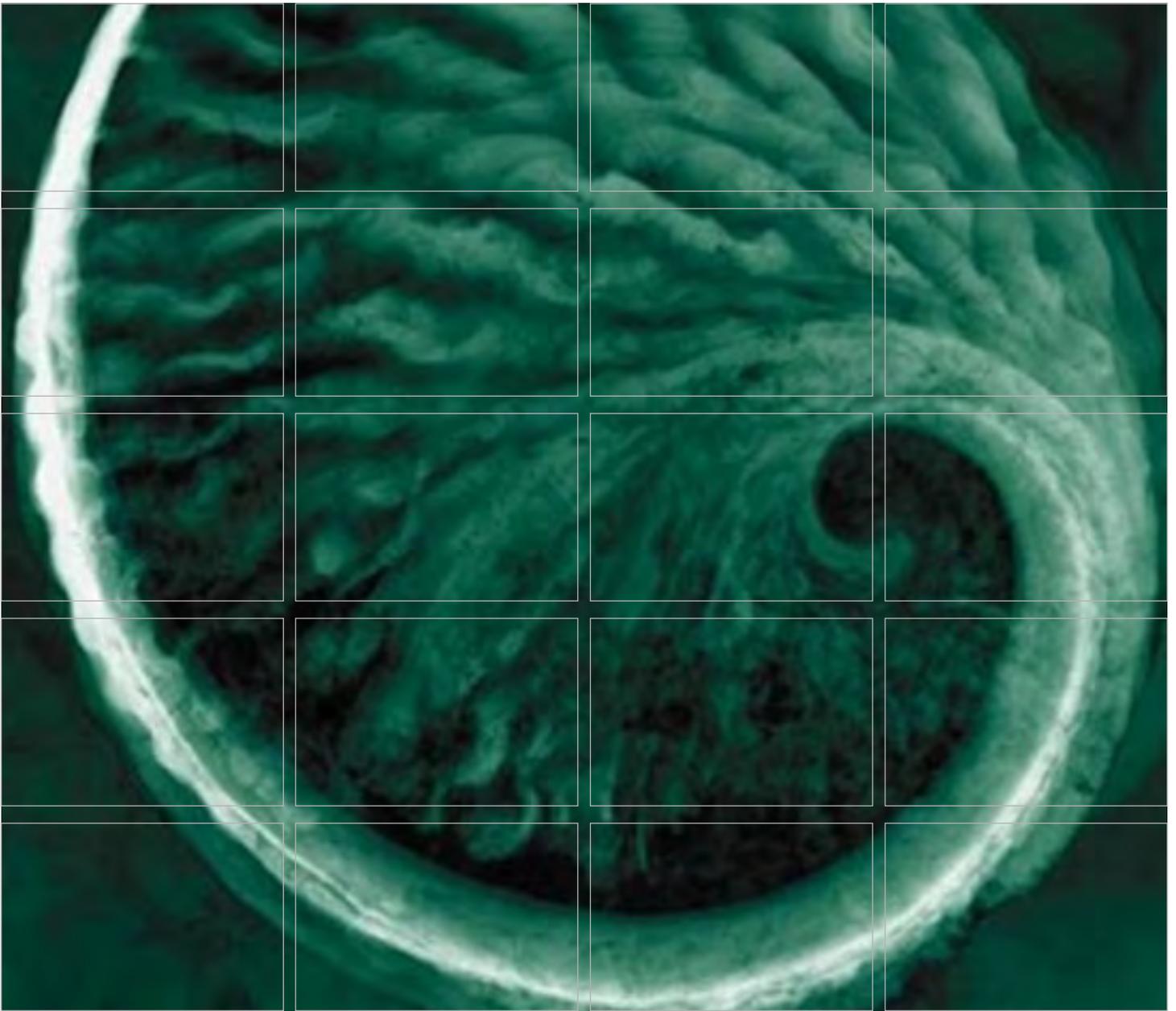
GROUP DELTA CONSULTANTS, INC.  
ENGINEERS AND GEOLOGISTS  
9245 ACTIVITY ROAD, SUITE 103  
SAN DIEGO, CA 92126 (858) 536-1000  
PROJECT NAME  
9400 Flair Drive Development  
Flair Spectrum, LLC

PROJECT NUMBER  
EN007  
DOCUMENT NUMBER  
13-0097  
FIGURE NUMBER  
7

**LIQUEFACTION MAP**

## Appendix D Phase I Environmental Site Assessments





# Phase I Environmental Site Assessment

Sargent Fletcher, Inc  
9400 East Flair Drive  
El Monte, California 91731, USA

4 September 2009

## Signatures



## Phase I Environmental Site Assessment

Sargent Fletcher, Inc  
9400 East Flair Drive  
El Monte, California 91731, USA

ERM Project No. 0099996

4 September 2009

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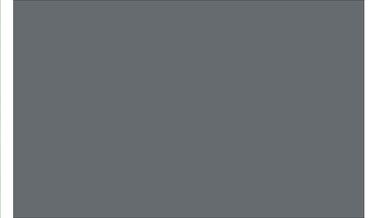
Truong Mai  
*Principal-in-Charge*

---

Simon Mendum  
*Project Manager*

**Environmental Resources Management**  
2875 Michelle Drive, Suite 200  
Irvine, CA 92606  
(949) 623-4700  
[www.erm.com](http://www.erm.com)

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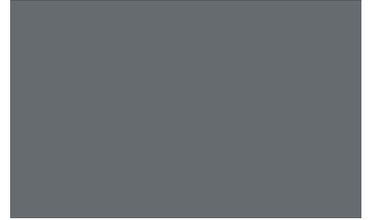
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# Executive Summary



## **Summary**

ERM completed a Phase I Environmental Site Assessment (ESA) of the Sargent Fletcher, Inc. (SFI) facility located 9400 East Flair Drive, El Monte, Los Angeles County, California (the “subject property” or the “site”). The environmental assessment was performed in support of SFI’s proposed sale of the subject property. The site visit was performed on April 8, 9 and 13 2009 by ERM assessors, Mr. Simon Mendum and Ms. Jennifer Brady. ERM was accompanied on the site visit by Mr. Davinder S. Chawla, Environmental Health and Safety Manager, who has been associated with the site since 2004. Additional site information was provided by Mr. Gilbert Tanon, Facilities/Maintenance Manager, who has been associated with the site for over 10 years.

The 14.66-acre subject property is developed with the following buildings:

- manufacturing and assembly building (MA building), totaling 121,685 square feet;
- cleaning and painting building (CP building), totaling 26,130 square feet;
- environmental screen testing building (ESS building), totaling 23,300 square feet;
- building 2, totaling 36,460 square feet;
- a 5,721-square-foot maintenance building;
- test stands 1, 2 and 3 are located in a three-sided shed totaling 14,550 square feet;
- test stand 4 is located in a 6,407-square-foot three-sided shed; and
- a parts store and hazardous material drum store (hazmat store - approximately 3,000 square feet).

Externally, the western third of the site is a paved parking lot, with landscaped grass and trees along the subject property’s western and northern boundaries. The operational portion of the site (eastern two thirds, where all the site buildings are located) is completely paved with concrete and asphalt.

SFI manufactures pneumatic ejector racks and aircraft external fuel tanks at the subject property. The external fuel tank manufacturing, is essentially a metal cutting, forming, welding and coating process to form the main tank, with assembly of pumps and connectors, prior to testing and shipping. The manufacture of pneumatic ejectors is largely an assembly process, with component parts (ready painted and finished) assembled, prior to environmental and physical testing, packaging and shipping.

SFI operates under a Quality Management System (QMS) certified to ISO 9001 and an Environmental Management System certified to ISO 14001. Current material handling and management practices were observed by ERM to be good, with all materials storage locations in well maintained and environmentally sound condition.

The subject property had been developed for agricultural use by at least 1928. During the 1940s the subject property and properties to the south and east had been developed as a grass airfield. Two structures, possibly small aircraft hangars, were developed on the northern portion of the subject site during this period, although the bulk of airfield operations (hangars, terminal buildings and so on) were to the east of the subject property. In 1953 the MA building was constructed on the northern portion of the site, with development of the current parking lot on the western portion of the site at the same time. Operations during this period are not fully understood, although it is believed that Sargent Fletcher Company (SFCo – the previous site owner/operator) may have manufactured or assembled a small training aircraft in addition to fuel drop tank manufacturing. Operations at the subject property continued to expand over time with construction of the remaining buildings in the 1960s, 1970s and 1980s.

Fuel tanks have been manufactured at the subject property since 1953, and according to SFI representatives, operations associated with that process have remained largely as current. Other operations identified at the subject property have included the manufacture of shell casings and manufacture of napalm-filled drop tanks. Shell casing operations appear to have been limited to conventional metalworking and forming. Manufacture of the napalm drop tanks, which took place between 1971 and 1972, was a similar process to the manufacture of external fuel tanks, with the exception that the tanks were filled with napalm (gasoline and benzene) prior to shipping from the site. Gasoline and benzene were previously stored at the site in five underground storage tanks (USTS), which are discussed under *Historical Recognized Environmental Conditions* below.

SFCo went into Chapter 11 bankruptcy in 1994. FR Acquisition, Inc. subsequently acquired certain assets of SFCo, and formed SFI later in 1994. As the site is located within the South El Monte Operable Unit (SEMOU) of the San Gabriel Superfund site, SFI entered into a Covenant Not to Sue (CNTS) with the US Environmental Protection Agency (US EPA) in 1995. SFI completed numerous intrusive investigations and sampling events at the subject site in accordance with the requirements of the CNTS Work Plan and as a component of regional investigations into the SEMOU. Based on ERM's document review, no evidence of gross or site-wide impact concerns had been identified at the site at the time of the prior reports and as such no further action was recommended by the authors of the reports, Dames and Moore. Based on ERM's agency and document reviews, the requirements of the CNTS Work Plan were met by 1998 to the apparent satisfaction of the US EPA and Regional Water Quality Control Board (RWQCB) and it appears that compliance with the CNTS Work Plan has been maintained since that time. Representatives of the US EPA have confirmed verbally that they have no intention of requiring additional action since the CNTS task orders were completed. As discussed below, so long as SFI and future owners of the site maintain compliance with the requirements of the CNTS, they will be afforded the protections from liability for pre-existing conditions set forth in the CNTS.

In exchange for a settlement payment and completion of the tasks specified in the CNTS Work Plan, the CNTS provides certain ongoing protections against liability for pre-existing (at that time) conditions. SFI was required to provide certain documents evidencing completion of tasks to US EPA for "review and comment" but not for US EPA approval. Upon making the first required payment, SFI has the protection of an US EPA covenant not to sue and US EPA agrees not to take any other civil or administrative action against SFI and other "settling respondents" for injunctive relief or reimbursement of response costs under Section 106 or 107(a) of CERCLA or Section 7003 or RCRA with respect to "present contamination." The CNTS further provides that SFI and other "settling respondents" are entitled to protection from contribution actions or claims addressed in the covenant not to sue pursuant to in Section 113(f)(2) of CERCLA. "Present contamination" means (1) hazardous substances (as defined in CERCLA) that existed on or under the site as of SFI's acquisition of the site; (2) hazardous substances that migrated from the site prior to SFI's acquisition of the site; and (3) hazardous substances that migrated or migrate onto, under, or from the site after SFI's acquisition of the site, provided that the activities of SFI and other "settling respondents" did not or do not cause or contribute to the release of such hazardous substances. "Settling respondents" includes subsequent purchasers of the site provided that the buyer and seller comply with the applicable terms of the CNTS, including providing 90-day prior notice of a proposed transfer of the site to EPA, disclosing information in their possession or control related to the present contamination at the site, and providing a certification from the prospective purchaser that it did not cause or contribute to the contamination at the site.

### **Recognized Environmental Conditions**

Based on the data obtained during the site visit, the environmental database review, and interviews with persons familiar with the site and its history, the following environmental Recognized Environmental Conditions (RECs) were identified as part of this assessment:

- *Historical On-Site Operations:* The site has been in continuous industrial use since at least 1953 for the manufacture of external aircraft fuel drop tanks and, for a limited period in the 1950s, aircraft assembly. During that period acids, caustics paints and solvents have been utilized on site, together with oils, gasoline and benzene. The volumes used and types of materials stored at the site has varied over time, depending upon manufacturing contracts and process evolution. The subject property was the subject of numerous soil gas, soil and groundwater sampling investigations in the 1980s and 1990s, with the last groundwater sampling exercise completed in 2000. Based on the results of those investigations, no evidence of gross or site-wide impacts was identified, although localized near-surface soil impacts were encountered.
- *Off-site Facility:* XPEDX Papers and Graphics, 9620 Flair Drive, located approximately 0.25 mile northwest and in a hydraulically upgradient location relative to the subject property, is listed on the well investigation program (WIP) and spills, leaks, investigations and cleanups (SLIC) databases. Both listings are related to cleanup program activities at the facility, although further details are not provided in the environmental database report reviewed by ERM or on the California Environmental Protection Agency's Envirostor website. The listing dates from 2000 and as such post-dates soil and groundwater data collection efforts from the subject property. On that basis, there is a low potential for associated impact to the subject property.

### **Historical Recognized Environmental Conditions**

The following Historical Recognized Environmental Conditions (HRECs) were identified as part of this assessment:

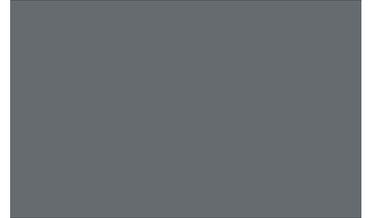
- *Former 10,000-Gallon Underground Storage Tanks (USTs):* Five 10,000-gallon USTs were used to store benzene and gasoline on the southern portion of the site (west of the maintenance building) in association with a one-year military contract in 1971 and 1972. No details on the period of use of the USTs have been identified during ERM's review. The USTs were installed in 1971, removed in 1988 and the case subsequently closed in 1993 by the LA County Department of Public Works (DPW).
- *Former 1,000-Gallon USTs:* A 1,000-gallon gasoline UST was installed south of the maintenance building in 1971, used to fuel on-site vehicles. The UST was removed in 1988 and subsequently granted "No Further Action" status by the DPW on November 3, 1997 after a further review of associated documents and re-submittal of reports by SFI's consultant, URS.

### **Other Noteworthy Issues**

The following noteworthy issue was identified during the course of ERM's review:

- *Asbestos Containing Materials:* A 1996 Preliminary Asbestos Survey Report, identified asbestos in 9-inch by 9-inch ceiling tile, mastic, pipe elbow insulation and transite wall panels. During the site visit, ERM observed several suspect ACMs including: floor tile/mastic; ceiling tile/mastic; vinyl baseboard/mastic; drywall systems; potential transite panels in Tests stands 1 to 3; thermal system insulation externally on the CP building; and composite roofing materials. From ERM's vantage points, these materials appeared to be in good condition.

# 1. Introduction and Background



## 1.1 Purpose and Auditors

ERM completed a Phase I Environmental Site Assessment (ESA) of the Sargent Fletcher, Inc. (SFI) facility located 9400 East Flair Drive, El Monte, Los Angeles County, California (the “subject property” or the “site”). The environmental assessment was performed in connection with SFI’s proposed sale of the subject property.

The site visit was performed on April 8, 9 and 13 2009 by ERM assessors, Mr. Simon Mendum and Ms. Jennifer Brady. ERM was accompanied on the site visit by Mr. Davinder S. Chawla, Environmental Health and Safety Manager who has been associated with the site since 2004. Additional site information was provided by Mr. Gilbert Tanon, Facilities / Maintenance Manager, who has been associated with the site for approximately 30 years.

## 1.2 Scope of Work

This environmental assessment was conducted in conformance with ERM’s proposal dated 1 April 2009 and 5 August 2009, and with the requirements of American Society for Testing and Materials (ASTM) Standard E 1527-05; Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process and the standards for conducting all appropriate inquiries set forth by the United States Environmental Protection Agency (USEPA) at 40 Code of Federal Regulations (CFR) Part 312.

The assessment was conducted to evaluate and identify conditions indicative of releases and threatened releases of hazardous substances and petroleum products on, at, in or to the subject property. ERM’s Phase I ESA sought to gather information regarding:

- (1) current and past property users and occupancies;
- (2) current and past uses of hazardous substances and petroleum products;
- (3) waste management and disposal activities that could have caused a release or threatened release of hazardous substances;
- (4) current and past corrective actions and response activities to address past and on-going releases of hazardous substances at the subject property;
- (5) engineering controls at the subject property;
- (6) institutional controls at the subject property; and
- (7) properties adjoining or located near the subject property that have environmental conditions that could have resulted in conditions indicative of releases or threatened releases of hazardous substances to the subject property.

The scope of this Phase I ESA included:

- An on-site inspection of the subject property to evaluate current conditions and identify areas of potential concern;
- A review of subject property and site area history through interviews and a review of various historical sources as referenced in Section 4.3 below;

- Observation of adjacent properties and the local area to evaluate the potential for adverse environmental impact to the subject property;
- Interviews/research of local city/county, tribal, state, and federal records, including contracting of Environmental Data Resources, Inc. (EDR) to identify regulatory listed sites as required in the regulatory records review section of the ASTM standard for Phase I ESAs, where available; and
- Interviews and/or requests for information from the User and subject property owner, as deemed appropriate by the Environmental Professional.

The following non-ASTM scope items were also included:

- A review of a 1995 Covenant Not to Sue (CNTS) entered into by SFI with the US Environmental Protection Agency (US EPA) and associated document submittals in support of compliance with the CNTS.
- A review of asbestos containing materials, including observations of readily accessible building areas and review of a prior asbestos report. No sampling was conducted.

### **1.3 Limiting and Special Conditions**

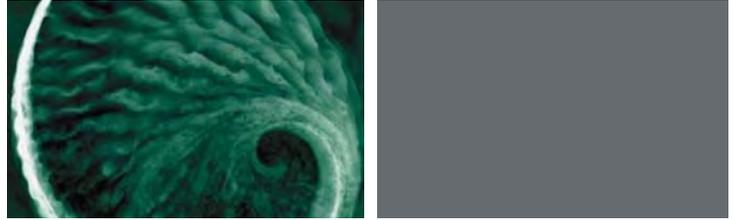
#### *1.3.1 Limiting Conditions during the Site Visit*

No limiting conditions were encountered during the site visit with respect to the inspection. Given that SFI is a defense contractor, photographs could not be taken in operational areas, and only limited photographs in external portions of the subject property were allowed.

#### *1.3.2 Significant Assumptions*

No significant assumptions have been made.

## 2. Site Setting



### 2.1 Location

The SFI facility is located southeast of the intersection of East Flair Drive and Rio Hondo Avenue, south of Interstate 10 (I-10) in the city of El Monte, Los Angeles County, California. The general location of the subject property and the physiographic features of the surrounding area are shown on Figure 1, developed from the United States Geological Survey (USGS) 7.5-minute quadrangle for El Monte California, dated 1994.

### 2.2 Neighboring Properties

Land use in the area of the subject property includes residential, commercial, and light industrial land. ERM observed the adjacent properties and nearby land use as follows:

- North: East Flair Drive, immediately beyond which is Interstate 10 (I-10). Residential properties are located beyond I-10, 260 feet north of the northern subject property boundary.
- South: The subject property is bound to the south from west to east by: the Cultural Center of Taipei; Yes411.com (website host); and Lith-O-Roll Corporation (manufacturer of metal axis rubber/compound rolls used by lithographic printers).
- East: The subject property is bound to the east from north to south by: two office buildings of the American Asian Association; American Reliance, Inc.; and a religious center belonging to the Evangelical Formosan Church.
- West: Rio Hondo Avenue, beyond which are an office building (at the intersection of East Flair Drive and Rio Hondo Avenue); parking lots (beyond which are United Educational Institute and offices of Yang Ming); and offices occupied by the Social Security Administration.

No visual evidence of environmental concerns was observed on immediately surrounding properties.

### 2.3 Topography and Hydrology

The subject property is located at an elevation of approximately 255 feet above mean sea level (AMSL) and is generally flat with a very gentle slope to the south. Based on the topographic map, undisturbed natural ground in the site area slopes south and south east. There are no creeks or surface water features, other than conventional storm water management swales and drains, on or close to the site. The closest surface water feature is Rio Hondo, located 660 feet south-southeast of the subject property at its closest point, flowing in a westerly direction towards the Pacific Ocean.

### 2.4 Geology and Hydrogeology

Based on a number of prior intrusive investigations conducted at the subject property since the 1980s, the site is located on sedimentary floor deposits of the San Gabriel Valley. Soils at the site are highly variable, composed of

interbedded silt, sand, gravel and clay in a repeated alluvial cycle, up to 2,000 feet in depth in the site area. Borings advanced at the site generally encountered interbedded silty clay, sandy clay and sand in variable unconsolidated deposits in the upper 50 feet.

According to the EDR report, there are nine state registered groundwater wells located within one mile of the subject property. These wells are located more than 1/8 mile from the subject property and none are located within 1/4 mile downgradient of the site.

Groundwater depth and flow in the unconsolidated alluvial deposits is variable, with relatively higher rates of vertical and horizontal flow in more sandy deposits compared to more clayey deposits. Clay lenses may locally retard lateral groundwater flow, or may lead to local distinct groundwater tables, confined above the main groundwater body. Prior investigations encountered groundwater at variable depths on the order of 30 feet below ground surface, although on at least one occasion on-site groundwater monitoring wells were determined to be dry. Groundwater flow direction has been continuously established as southwesterly.

## 3. Site Description and Operations Information



### 3.1 General Site Description

#### 3.1.1 Ownership Information

Information obtained from the Los Angeles County Assessor, and the current deed (recorded October 14, 1994), obtained from the Los Angeles County Recorder, identifies ownership of the subject property listed as Sargent Fletcher, Inc., and FR Acquisition, Inc. respectively. Based on additional review, it appears that FR Acquisition, Inc., which formed Sargent Fletcher, Inc. in 1994 after acquisition out of bankruptcy of certain assets of Sargent Fletcher Company (SFCo), subsequently transferred title into SFI's name. The subject property consists of two parcels identified by PIN Nos. 8581-001-029 and 8581-001-046.

#### 3.1.2 Subject Property Layout

The 14.66-acre subject property is developed with the following buildings:

- Manufacturing and assembly building (MA building): This building totals 121,685 square feet with 20,000 square feet of office space on two floors in the northeastern portion of the building. The building houses SFI's main manufacturing and assembly areas including forming and welding, quality control and inspection. A wastewater treatment plant (WWTP) is located at the southeastern corner of the MA building. Process dip tanks and compressors are located along the building's southern wall.
- Cleaning and painting building (CP building): This building totals 26,130 square feet and houses the main painting lines and paint storage areas. A roofed, contained external hazardous waste store is attached to the northern wall of this building.
- Environmental screen testing building (ESS building): This building totals 23,300 square feet and houses an environmental test facility including a cold chamber, vibration testing and other physical product testing.
- Building 2: Located on the southeastern corner of the site housing aerial refueling assembly (26,460 square feet); spinning and "large press" operations (6,000 square feet), and assembly and testing of pneumatic release equipment and racks (4,000 square feet).
- Maintenance building: This building totals 5,721-square-feet and houses offices and a maintenance shop. It is located on the southern portion of the site.
- Test stands 1, 2 and 3 are located in a three-sided shed totaling 14,550 square feet in the central-southern portion of the site. The test stands include concrete-contained or double-walled aboveground storage tanks (ASTs) used to store solvent that replicates jet fuel, used to test fuel tanks and other products.
- Test stand 4 is located in a 6,407-square-foot three-sided shed in the central portion of the site, immediately west of the ESS building and south of the CP building. A compressor and double-walled AST are located on the southern wall of test stand 4.

- A parts store and hazardous material drum store (hazmat store - approximately 3,000 square feet) are located on the northeastern corner of the site.

The buildings on the site are of various constructions, from concrete tilt up structures with composite roofs, to steel-framed metal-clad structures.

Externally, the western third of the site is an asphalt-paved parking lot, with landscaped grass and trees along the subject property's western and northern boundaries. The operational portion of the site (eastern two thirds, where all the site buildings are located) is completely paved with concrete and asphalt. External fenced-off storage areas include a disused equipment area immediately west of the maintenance building (concrete contained above surrounding grade) and demonstration aircraft fuel tanks in a fenced area on the eastern boundary of the subject property. Although out-of use equipment and transport containers/crates are stored externally, locally on the site, ERM noted that the equipment was stored under tarpaulins to avoid storm water exposure.

### **3.2 Utilities**

The subject property is provided with the following utilities:

- Water for process, sanitary and drinking use from California America Water;
- Sewer service from Los Angeles County Sanitation District;
- Natural gas service from The Gas Company; and
- Electricity from Southern California Edison (SCE).

### **3.3 Processes and Material Use**

#### *3.3.1 Current Operations*

Sargent Fletcher manufactures pneumatic ejector racks and aircraft external fuel tanks at the subject property. In external fuel tank manufacturing, aluminum sheets are cut and formed on presses, rollers and pressurized pot dies, prior to welding, cleaning, coating, painting and assembly. Painting is completed using solvent-based or water-based paints (depending upon contract specification). The paint is applied in an automated spray process within the CP building. Natural gas ovens or electric high-intensity lamps are used to cure the paint.

The manufacture of pneumatic ejectors is largely an assembly process, with component parts (ready painted and finished) assembled, prior to environmental and physical testing, packaging and shipping.

SFI has operated under a Quality Management System (QMS) certified to ISO 9001 / AS 9100 since 2005, and under an Environmental Management System (EMS) certified to ISO 14001 since 2006. Although a comprehensive review of the EMS was not conducted by ERM, SFI appears to have robust systems in place for the management, storage and handling of raw materials and chemicals at the site, and conducts regular (weekly and monthly) documented inspections of tanks, material use and storage areas and waste storage areas, as discussed in the following sections. A limited review of EMS inspection logs has not identified any potentially significant operational or release-related issues.

### **3.4 Material Use and Storage**

ERM observed the following raw materials and chemicals in use at the subject property:

- Formula 724 penatone (proprietary blend), used as a tank test solvent to replicate jet fuel, is stored in aboveground storage tanks (ASTs) next to the test stands. ASTs are discussed further, below. In addition, four virgin drums of penatone were observed in the hazmat store.

- Solvent 142 (proprietary blend), an older product infrequently used and replaced largely by penatone, is stored in two virgin 55-gallon drums in the hazmat store. No in-use drums were observed by ERM.
- Solvent-, and water-based paints stored in boxes in 1-gallon cans in a climate-controlled metal, self contained storage container in the CP building. An immediate supply is kept on hand.
- Aluminum sheet, stored on pallets in the MA building.
- Ardrox 5564 (a proprietary non-chlorinated solvent-based cleaner) used in coating. Two virgin 55-gallon drums, plus one in-use 55-gallon drum stored in the hazmat store building.
- Isopropyl alcohol (IPA) stored in two virgin 55-gallon drums, plus one in-use 55-gallon drum in the hazmat store building.
- Three virgin 55-gallon drums of acetone, plus three additional in-use 55-gallon drums, located in the hazmat store building.
- Five 55-gallon drums of ridoline on a shrink-wrapped pallet staged in the MA building next to the chemical conversion coating line. The drums were awaiting inventory and transfer to the hazmat store.
- Four virgin 55-gallon drums of nitric acid, located in the hazmat store building.
- Three virgin 55-gallon drums of sulfuric acid, located in the hazmat store building.
- Skydrol is stored in two 55-gallon drums in the hazmat store building.
- Two 55-gallon drums of deoxalume 2310 and two 55-gallon drums of deoxalume 2350/60 in the hazmat store building.
- Two 55-gallon drums of leak detector (soap), plus one in use in the hazmat store building.
- Two 55-gallon drums of parko alkaline cleaner, plus one in use in the hazmat store building.
- Other single 55-gallon drums observed by ERM in the hazmat store building include: sodium meta-bisulfate; met-I-check; kerosene; sodium hydroxide; and jodraw (grease).

According to site representatives, other materials commonly used and stored at the subject property, although not necessarily present during ERM's inspection, include: 5-gallon pales of alodine (used to top up alodine baths – discussed below); and hydraulic oils used by maintenance staff. Other materials used at the site include domestic-sized aerosols of hand spray paints, lubricants, and thinners/solvents (such as WD-40) and various sealants and epoxy compounds.

Other material storage at the site includes in-use aboveground baths in the chemical conversion lines along the MA building's eastern wall. The baths (seven 1,000- and seven 2,000 gallons in volume) contain parco (soap), deoxidizer (a proprietary blend of nitric acid and deoxaline), alodine and water rinses. The baths are completely above grade and above concrete flooring, which appeared to be in adequate condition to prevent release to the subsurface in the event of a spill. No evidence of spills or releases associated with the baths was observed by ERM at the time of the site inspection.

Materials stored in the hazmat store building are dispensed within the store containment daily to 1-gallon pails as needed and transferred to the point of use. The majority of materials are not stored at point of use overnight. Those that are stored at point of use are placed on containment trays. The hazmat store itself is fully contained by concrete, with no visible evidence of spills or releases, both within the containment and into the main point of use areas.

Paints are stored in a metal, self-contained, pressure and temperature-controlled unit within the CP building. Handling and use of paints in the paint process was observed to be good.

A number of gasses are used at the subject property. These include propane (stored in an AST and used to fuel forklifts), acetylene and oxygen (the latter two gasses used in ten welding machines and in portable maintenance welding sets).

In general, materials storage and handling practices observed by ERM were noted to be very good, with apparent excellent compliance with materials handling procedures set out in SFI's EMS. SFI has been inspected on a number of occasions by the LA Fire Department and Certified Unified Program Agency (CUPA) in association with materials handling and storage. According to site representatives, no issues have ever been raised and no associated notices of violation were identified during ERM's review.

Based on ERM's review of EMS procedures and inspection logs, the chemical storage areas are inspected on a daily basis and inspection logs maintained by Mr. Chawla.

#### *3.4.1 Underground Storage Tanks (USTs)*

According to facility contacts, no USTs are currently located on the subject property, and no visual indication of the potential presence of USTs was noted by ERM during the site visit. USTs previously located at the subject property are discussed in Section 4.

#### *3.4.2 Aboveground Tanks (ASTs)*

SFI operates the following aboveground storage tanks (ASTs) at the subject property:

- Six 1,000-gallon and one 500-gallon penatone ASTs located in individual concrete containments in the test stands. One of the 1,000-gallon ASTs is currently not operational, and is empty.
- One double-walled steel 2,500-gallon penatone AST located adjacent to test stand 4.
- One 500-gallon propane AST.

Based on ERM's review of EMS procedures and inspection logs, the ASTs are inspected on a daily basis and inspection logs maintained by Mr. Chawla. The condition of the ASTs and the condition of the concrete containment structures was noted to be good and of sound environmental integrity. No staining, or other evidence of associated releases was observed around the ASTs.

### **3.5 Waste Management**

#### *3.5.1 Hazardous Waste*

According to SFI representatives and the environmental database report reviewed by ERM, SFI currently operates as a large quantity generator (LQG) of hazardous waste. Hazardous waste generated on the site at the time of ERM's review included the following:

- Polyurethane-based-paint sludge and water-based-paint sludge generated from a paint process in permitted paint booths. The volume generated varies depending upon production. The sludge is removed within 90 days by Veolia for appropriate off-site disposal.
- Spent solvents from testing and parts washing operations. The solvents are stored in 55-gallon drums in satellite accumulation areas and subsequently transferred to the hazardous waste storage area prior to off-site disposal managed through Arrow Environmental International (AEI).

- Waste oil and oil/water mixtures, generated during QA/QC testing and maintenance operations, are stored in a 55-gallon drum in the hazardous waste storage area prior to removal through AEI for appropriate off-site disposal.
- Spent dried paint filters from paint booths, which may contain hexavalent chromium from a specialty paint, are stored in a 1-cubic-yard cardboard container in the hazardous waste storage area and removed within 90 days through AEI for appropriate off-site disposal.
- Minimal volumes of expired shelf life, or no longer required chemicals. Volume varies significantly and is generally not significant. When generated, these materials are staged in the hazardous waste storage area prior to appropriate off-site disposal through AEI for appropriate off-site disposal..

SFI contracts with AEI to manage removal and off-site disposal/treatment of hazardous wastes (with the exception of filter cake from the filter press, which is handled by Veolia). AEI subcontracts with various registered waste haulers to collect and remove the waste from the site.

The hazardous waste storage area is located on the northern wall of the CP building, and is a fully concrete-contained area, with a roof to prevent storm water ingress, and security fencing to the sides. The condition of the storage area was noted by ERM to be good, with no evidence of spills or releases. In general, hazardous waste management on the site was noted by ERM to be very good, with documented weekly inspections of satellite accumulation areas and the hazardous waste store in accordance with SFI's hazardous waste contingency plan and EMS protocols.

Universal wastes, such as spent fluorescent lamps, batteries, ballasts, printer toner cartridges and waste electronic equipment and staged and removed and as needed through AEI.

The environmental database report lists SFI as a large quantity generator (LQG) and based on prior listings it appears that SFI has maintained LQG status since at least 1990. Waste generation listed on the environmental database report appears to be consistent with the information presented above.

According to SFI representatives, the subject property has been inspected on numerous occasions by Los Angeles County Fire Department staff, without issue. SFI representatives also indicated that they are not aware of on-site disposal of hazardous waste materials.

### 3.5.2 *Non-Hazardous Waste*

Non-hazardous wastes generated at the subject property include the following general streams:

- Spent, dried paint filters (non-hexavalent chrome) are collected and stored in a 1-cubic-yard cardboard container in the hazardous waste storage area. The dried filters are removed from the site as needed through AEI.
- Water jet media (sand), which is stored locally in process tank and removed into roll-off bins and transported for disposal as necessary via AEI.
- Mop wastewater from daily janitorial operations is collected in two aboveground vessels in the southeastern portion of the MA building. Clarifier clean up wastewater is removed during biennial clarifier inspection and maintenance operations. The combined wastewater is removed following appropriate profiling through AEI.
- Spent aqueous coolants from machining operations are occasionally generated and stored in a 55-gallon drum at the point of generation, prior to appropriate off-site disposal through AEI.
- Paint cans are dried and crushed, stored in a metal dumpster in the hazardous waste storage area and removed as needed by Arrow Environmental Systems (AES) for off-site recycling.
- General trash is collected locally in dumpsters and removed for off-site disposal multiple times each week by Waste Management, Inc.

In addition to the above, SFI collects for off site recycling through AES: aluminum; steel; paper and cardboard; and plastic packaging. Rags used for wipe down of parts and local part cleaning are stored in a 55-gallon drum and removed weekly for off-site laundering by M. L. Winters, Inc.

No staining of pavement was noted in the non-hazardous waste storage areas. ERM did not observe evidence of solid waste disposal on the subject property.

### **3.6 Water Supply, Wastewater and Storm Water**

#### *3.6.1 Water Supply*

Water, supplied by California America Water, is used by SFI in boilers, the water-jet machine, non-contact cooling, rinse baths and for potable and sanitary purposes. Based on ERM's review, there are no regulated groundwater extraction wells on the site.

#### *3.6.2 Wastewater*

Wastewaters generated by SFI include:

- Water jet wastewater is filtered, passed through a clarifier and discharged to the sanitary sewer under a permit by rule.
- Wastewater generated from the chemical conversion coating line is directed to the WWTP for treatment prior to discharge to the sanitary sewer under a permit by rule.
- Sanitary wastewater from SFI's sanitary facilities is discharged directly to the sanitary sewer.

The WWTP takes spent rinse water from the chemical conversion coating lines, which contains hexavalent chromium from alodine. The treatment essentially converts the hexavalent chromium into trivalent chromium. The wastewater enters the system, pH is reduced to pH 2, and sodium bisulfide or sodium metabisulfide added (in an aboveground tank) to convert the hexavalent chromium to trivalent chromium. The wastewater subsequently collects in a sub-grade concrete (resin-lined) tank, where a flocculent is dosed, and solidified trivalent chromium and water is gravity fed into a settling tank allowing the trivalent chromium to settle to the base of the tank. The pH is adjusted to pH 7 and the wastewater discharged to sanitary sewer under permit.

The settling tank is drained regularly and the solids removed, which are passed to a filter press, with the solids disposed (as discussed above) and the resulting wastewater passed back into the WWTP system.

The condition of the WWTP was observed to be good, with the only sub-grade structure being the settling tank. This tank is drained and inspected annually, and a core sample taken from its base to confirm continued environmental integrity. According to Mr. Chawla, no evidence of a potential release from the tank has been detected through past integrity test results.

SFI operates a number of clarifiers at the site as part of its wastewater management system. The clarifiers are emptied and inspected at least annually for environmental integrity, and otherwise inspected and cleaned out at least every six months.

#### *3.6.3 Storm Water*

Precipitation that falls on the site is captured by surface water drains and swales which channel the storm water to the west and ultimately to a discharge point on the central southern portion of the site (southwestern corner of the main operational area). All manufacturing and testing operations at the subject property are conducted inside or under roof. Any materials stored externally are stored under tarpaulins or otherwise covered to prevent a storm water exposure. No

staining, sheens or other evidence of impact to storm water pathways was observed by ERM at the time of the site inspection. The facility manages storm water through a storm water permit and associated Storm Water Pollution Prevention Plan. Based on the results of annual storm water sampling, no impacts to storm water have been identified.

### **3.7 Air Emissions**

Air emissions sources at the site include:

- VOC and particulate emissions from paint booths, which are discharged via four stacks, each fitted with a HEPA filter with 99.99% efficiency, significantly better than minimum permit requirements.
- Fugitive emissions from acids and corrosives from the aboveground baths of the two chemical conversion lines.
- Fugitive emissions associated with ASTs.
- Emissions from the natural gas ovens and driers associated with the painting operations.
- A natural gas-fired boiler.
- Fugitive emissions of acetone, IPA, ardrex and solvents (mainly penatone) from general and testing operations.

The facility manages air emissions through minor source permits to operate issued by the South Coast Air Quality Management District.

### **3.8 Polychlorinated Biphenyls (PCBs)**

ERM inspected the subject property for types of equipment that have been historically associated with the use of polychlorinated biphenyls (PCBs) such as a dielectric fluid coolant and stabilizer in transformers, capacitors, and high voltage liquid-filled switches.

ERM observed one pad-mounted transformer at the northwest corner of the MA building, and three larger capacity transformer units immediately south of the MA building. The pad-mounted transformer at the northeastern corner of the MA building was noted to be in good condition, with no evidence of releases. The three larger capacity transformers are in reasonable condition, with slight evidence of minor oil releases along the upper shoulder portions of the units, close to valves. No evidence of releases to the underlying concrete pad or surrounding asphalt was observed by ERM. According to a 1995 PCB Inspection and Testing report (discussed below) and an October 2004 letter to SFI from SCE, the transformers are owned by SCE.

The PCB Testing and Inspection Report, dated November 21, 1995, documents sampling and analysis of oil in transformers, older process equipment and older compressors at the subject property. According to the report, the three larger capacity transformers were manufactured in 1943, although ERM notes the MA building was not constructed until 1953 (the transformers may not have been installed “new”, which is not uncommon). In 1995, samples from each of the transformers were taken by a representative of SCE, with further samples collected from presses and hydraulic equipment by Dames and Moore. Sampling results from the process equipment and older compressors were non-detect for PCBs. PCBs were identified in the three older transformers at levels between 24 and 26 parts-per-million, below regulatory action and registration levels.

### **3.9 Asbestos Containing Materials (ACMs)**

Asbestos was banned in most friable building materials (sprayed applied surfacing materials and thermal system insulation) in 1978, but the Occupational Safety and Health Administration (OSHA) deems spray applied surfacing materials, thermal system insulation materials, and vinyl flooring materials as “presumed asbestos-containing materials”

(PACMs) if they are present in pre-1981 buildings (Title 29 of the Code of Federal Regulations, Parts 1910.1001 and 1926.1101). Historical records indicate that the site buildings pre-date 1981.

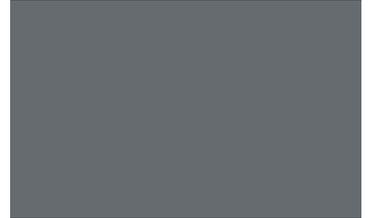
A Preliminary Asbestos Survey Report, dated January 1996, was conducted at the subject property in accordance with the requirements of Task 6 of a 1995 Covenant Not to Sue (CNTS – discussed below in Section 4.2). According to the report, asbestos was identified in 9-inch by 9-inch ceiling tile, mastic, pipe elbow insulation and transite wall panels. The materials were noted to be in good condition, although some local damage to the transite was noted. An Asbestos Operations and Maintenance Plan (O&M Plan) was subsequently prepared by Dames and Moore on March 22, 1996.

During the site visit, ERM observed several suspect ACMs in line with those identified in the O&M Plan including: floor tile/mastic; ceiling tile/mastic; vinyl baseboard/mastic; drywall systems; potential transite panels in Tests stands 1 to 3; thermal system insulation externally on the CP building; and composite roofing materials. From ERM's vantage points, these materials appeared to be in good condition during the site reconnaissance, although composite roofing materials could not be observed.

### **3.10 Visual Indications of On-Site Impacts**

ERM did not observe additional evidence, such as staining, stressed vegetation, or similar conditions other than those mentioned above that would constitute a visual indication of on-site impacts.

## 4. Site and Area History



### 4.1 Summary

The subject property had been developed for agricultural use by at least 1928, with a small structure, likely a residence, on the subject property's northern boundary at that time. During the 1940s the subject property and properties to the south and east had been developed as a grass airfield known as Fletcher Airport. Two structures, possibly small aircraft hangars, were developed on the northern portion of the subject site during this period, although the bulk of airfield operations (hangars, terminal buildings and so on) were to the east of the subject property. It is understood that the airfield, bound by Rio Hondo to the southeast, Flair Drive to the north and Rio Hondo Avenue to the west, was operated by SFCo during the 1940s.

In 1953 the MA building was constructed on the northern portion of the site, with development of the current parking lot on the western portion of the site at the same time. Operations during this period are not fully understood, although it is believed that SFCo may have manufactured or assembled a small training aircraft in addition to fuel drop tank manufacturing. In 1962 the operator at the site was listed in city directories as Fletcher Aviation Company.

Operations at the subject property continued to expand over time with construction of: test stands 1 to 3 in the late 1950s; the CP building in 1960; the maintenance building in 1963; the rack testing portion of building 2 in 1964 (extended to its current configuration in the early 1970s); the current hazmat storage building in 1965; test stand 4 in 1980; and the ESS building in 1989.

Fuel drop tanks have been manufactured at the subject property since 1953 and, according to SFI representatives operations have remained largely as current with variations in materials use due to contract and or evolution of the manufacturing process.

### 4.2 Covenant Not To Sue

SFCo went into Chapter 11 bankruptcy in 1994. FR Acquisition, Inc. subsequently acquired certain assets of SFCo, and formed SFI later in 1994. As the site was located in the South El Monte Operable Unit (SEMOU) of the San Gabriel Superfund site, SFI entered into the 1995 CNTS with the US EPA.

In exchange for a settlement payment and completion of tasks specified in the CNTS Work Plan, the CNTS provides certain protections against liability for pre-existing (at that time) conditions. SFI was required to provide certain documents evidencing completion of tasks to EPA for "review and comment" but not for EPA approval. Upon making the first required payment, SFI has the protection of an EPA covenant not to sue and EPA agrees not to take any other civil or administrative action against SFI and other "settling respondents" for injunctive relief or reimbursement of response costs under Section 106 or 107(a) of CERCLA or Section 7003 or RCRA with respect to "present contamination." The CNTS further provides that SFI and other "settling respondents" are entitled to protection from contribution actions or claims addressed in the covenant not to sue pursuant to Section 113(f)(2) of CERCLA. "Present contamination" means (1) hazardous substances (as defined in CERCLA) that existed on or under the site as of SFI's

acquisition of the site; (2) hazardous substances that migrated from the site prior to SFI's acquisition of the site; and (3) hazardous substances that migrated or migrate onto, under, or from the site after SFI's acquisition of the site, provided that the activities of SFI and other "settling respondents" did not or do not cause or contribute to the release of such hazardous substances. "Settling respondents" includes subsequent purchasers of the site provided that the buyer and seller comply with the applicable terms of the CNTS, including, among other things, providing 90-day prior notice of a proposed transfer of the site to EPA, disclosing information in their possession or control related to the present contamination at the site, and providing a certification from the prospective purchaser that it did not cause or contribute to the contamination at the site.

SFI completed numerous intrusive investigations and sampling events at the subject site in accordance with the requirements of the CNTS Work Plan. The CNTS Work Plan included the following tasks, and associated responses from SFI in satisfaction of those task requirements:

**TABLE 4.2**

<b>Task</b>	<b>Requirement</b>	<b>SFI Response</b>
Task 1: Hazardous Waste Management	A prior 1994 Phase I ESA report indicated that the hazardous waste program at the site required some improvement to meet all applicable regulatory requirements. To address Task 1, SFI agreed to develop and implement a detailed hazardous waste management plan to ensure that hazardous wastes were managed in an environmentally appropriate manner and in compliance with all applicable RCRA hazardous waste management regulations.	<i>Hazardous Waste Management Plan Review</i> , dated December 7, 1995. Based on ERM's review SFI met the requirements of Task 1.
Task 2: Materials Handling Improvements	A prior 1994 Phase I ESA report indicated several areas of staining and an area of oil-stained soils close to an abandoned air compressor at the southwestern corner of the production machine shop. To address Task 2, SFI agreed to investigate this area.	<i>Subsurface Soils Investigation of the Backup Air Compressor Area</i> , dated January 23, 1997. As discussed below in the timeline in Table 4.4.1 (item EE), the report recommended NFA status be granted. SFI appears to have met the requirements of Task 2.
Task 3: Storm Water and Wastewater Management	To address Task 3, SFI agreed to upgrade its storm water (Task 3.1) and waste water (task 3.2) management practices and engineering controls to achieve best engineering management practices and applicable regulatory requirements. Specifically this included storm water permitting issues and review of the WWTP and associated permitting.	<i>Summary Report Pursuant to Task 3.2, Identification of Requirements Necessary to Obtain a Los Angeles County Sanitation Districts Wastewater Discharge Permit</i> , dated November 6, 1995.  SFI currently maintains coverage under a storm water permit and has prepared and maintains a Storm Water Pollution Prevention Plan. On-site records indicate that this has been the case since at least 1998.  SFI appears to have met the requirements of Task 3.
Task 4: Air Pollution Compliance Evaluation and Improvement Program	It was determined that although operating in compliance, there was a possibility that the site may be subject to additional requirements under the 1990	<i>Air Compliance and Evaluation Improvement Program</i> , dated January 12, 1996.

Task	Requirement	SFI Response
	Clean Air Act Amendments (CAAA). The task also required completion and acceptance of a Health Risk Assessment.	<p>The required Health Risk Assessment, dated 1991, was finalized by SFI and approved by the South Coast Air Quality Management District (SQAQMD) on June 18, 1999.</p> <p>SFI appears to have met the requirements of Task 4.</p>
Task 5: UST Management	To address this Task, SFI agreed to prepare and submit a final closure report for a former 1,000-gallon gasoline UST installed at the site in 1971.	<p><i>UST Closure Report</i>, dated December 6, 1995. <i>No further Action letter</i> dated November 3, 1997 from the Los Angeles County Department of Public Works (DPW). See item DD in Table 4.4.1.</p> <p>SFI appears to have met the requirements of Task 5.</p>
Task 6: Asbestos Assessment and Management	During the 1994 Phase I ESA inspection, there were areas of the site not observed by the Phase I author due to issues of accessibility. To address Task 6, SFI agreed to conduct an asbestos survey to identify all suspect ACM on the plant premises and document the findings in a brief report.	<p><i>Preliminary Asbestos Survey Report</i>, dated January 1996 and <i>Asbestos Operations and Maintenance Plan</i>, dated March 22, 1996.</p> <p>Asbestos is discussed in Section 3.9. SFI appears to have met the requirements of Task 6.</p>
Task 7: PCB Inventory Management	To address Task 7, SFI agreed to determine the PCB content of the transformers on the site and develop a PCB testing program for gear boxes, capacitors and older process equipment.	<p><i>PCB Testing and Inspection Report</i>, dated November 21, 1995. The report is discussed in Section 3.8. SFI appears to have met the requirements of Task 7.</p>
Task 8: Groundwater Monitoring	SFI agreed to install two additional monitoring wells on the site (for a total of five) and conduct quarterly monitoring for one year.	<p><i>Sampling and Analysis Work Plan</i>, dated May 31, 1996, approved by the EPA Region 9, August 27, 1996.</p> <p><i>Quarterly Monitoring Reports</i> submitted and <i>Final Monitoring Report</i>, dated December 19, 1997. The report, which is summarized in the timeline in Table 4.4.1 below, did not identify any significant groundwater impact and recommended NFA status be granted.</p> <p>SFI appears to have met the requirements of Task 8.</p>
Task 9: Waste Minimization and Pollution Prevention Initiative	To address Task 9, SFI agreed to conduct a waste minimization review	<p>SFI submits four-yearly waste minimization reports pursuant to SB14, which detail waste minimization at the site. Based on ERM's review, SFI is in compliance with Task 9.</p>

Based on ERM's review, at the time of the prior reports no evidence of gross or site-wide impact concerns had been identified at the site and as such a NFA status was recommended by the authors of the reports, Dames and Moore. As noted above, SFI was required to provide certain documents evidencing completion of tasks to EPA for "review and comment" but not for EPA approval. This is consistent with USEPA standard practice. Based on ERM's agency and document reviews, the requirements of the CNTS were met by 1998 to the apparent satisfaction of the US EPA and Regional Water Quality Control Board (RWQCB). Furthermore, review of Los Angeles County Department of Public Health files (which was consulted by the RWQCB during the investigation process) indicated that in August 1996, the Department was satisfied with investigations at the site, with a file note that indicated closure was recommended. It appears that CNTS compliance has been maintained since that time.

#### 4.3 Previous Environmental Reports

A substantial volume of historical environmental documentation exists for the subject property, both in SFI internal files and with regulatory agencies. For clarity, significant issues associated with prior reports are discussed below in a single historical narrative.

#### 4.4 Evaluation of Historic Information Sources

To determine past uses of the subject property and surrounding properties, ERM reviewed historical sources of information as outlined below. Copies of historical Sanborn Fire Insurance Maps, topographic maps aerial photographs and a city directory search report are presented in Appendix B.

**Table 4.3 Summary of Historical Sources Reviewed**

Agency/Source of Information	Data Provided	Timeframe
SFI representatives (current operator and owner)	General information	Knowledge of historical operations over past 30 years
City of El Monte Building Department	Building permits, inspection and planning record file.	Varies with file
USGS Topographic Maps	Topographic Maps	1900, 1901, 1913, 1953, 1966, 1972, 1981 and 1994
Los Angeles County Department of Planning and Development	Various plans and documents	Varies with file
EDR	Sanborn Fire Insurance Maps	No Coverage
EDR	City Directories	Three to five year increments from 1920 to 2006
EDR	Aerial Photographs	1928, 1938, 1949, 1956, 1968, 1976, 1989, 1994, 2002 and 2005
Los Angeles County Department of Public Works	Various prior reports and correspondence	Varies with file
Los Angeles County Department of Public Health	Various prior reports and correspondence	Varies with file
Department of Toxic Substances Control (DTSC): Cypress office and Chatsworth office	Various prior reports and correspondence	Varies with file
Regional Water Quality Control	Various prior reports and correspondence	Varies with file

Board, LA Office		
Los Angeles County Assessor	Ownership and general subject property information	Current data
Los Angeles County Recorder	Ownership, current deed and general subject property information	Current data
US EPA Region 9, San Francisco Public Records Request, and interview with Project Manager	Awaiting various prior reports and correspondence in association with the CNTS	Varies with file
SFI environmental files at the subject property	Various prior reports, correspondence, permits and associated reporting and submittals	Back to 1980s
DTSC Envirostor website	Prior case data (limited)	Varies with file
EPA ECHO website	Prior regulatory enforcement and performance with respect to potential for impact	Last 10 years
EPA Envirofacts website	Prior regulatory enforcement and performance with respect to potential for impact	Last 10 years
EDR	Environmental Lien Search	Discussed in Section 7.0

#### 4.4.1 Subject Property

ERM has reviewed a substantial volume of documentation associated with the subject property. Pertinent information, and file data worthy of further note is included below.

**Table 4.4.1 Historical Site Timeline**

<u>Year</u>	<u>Activity</u>	<u>Item</u>
<b>1900 to late 1930s</b>	➤ The subject property was in agricultural use by at least 1900 and a small structure, likely a residence, was present on the northern boundary of the subject property by at least 1928.	A
<b>1949</b>	➤ The subject property formed the northwestern portion of a much larger property developed as a grass airfield known in later years as the Fletcher Airfield. Two small structures, possibly aircraft hangars, had been developed in the location of the eastern portion of the MA building.	B
<b>1953</b>	➤ The MA building was constructed, together with the current parking lot on the western portion of the site, although the subject site was still apparently part of the larger Fletcher Airfield property. Test stands 1 to 3 were subsequently constructed in the late 1950s. During this period, operations at the subject property are believed to have included some form of military trainer (later crop duster) aircraft assembly and/or associated manufacturing, and the manufacturing of external fuel tanks similar to current.	C
<b>Late 1950s</b>	➤ SFCo acquired by AJ Industries.	D
<b>1960</b>	➤ The current CP building was constructed.	E
<b>1962</b>	➤ The subject property is listed in city directories under the name Fletcher Aviation Company.	F
<b>1963</b>	➤ The current maintenance building was constructed. It appears it was originally a carpenters shop.	G
<b>1964</b>	➤ The rack testing portion of building 2 was constructed and subsequently extended to its current configuration in the early 1970s .	H
<b>1965</b>	➤ The current hazmat storage building was constructed, originally in use as a “metal deburring and swaging shop”.	I

	An October 1965 LA County Health Department file indicates SFCo was in operation at the subject property and under the ownership of AJ Industries. Health reports document “ <i>exposure to spray painting vapors</i> ” in “ <i>adequate ...paint booths</i> ” and the use of solvent-based paints and paint thinners. Operations are listed as “ <i>manufacture of aircraft fuel tanks and incendiary bombs</i> ”. A later health report indicates that only shell casings were manufactured at the site. Another health report indicates the use of alodine baths at the subject property.	
<b>1966</b>	➤ The subject property is listed in city directories under the names Sargent Fletcher Company of El Monte, Fletcher Airport and Fletcher Aviation Corporation, and continued to be listed as such until 1990.	J
<b>August 1971</b>	➤ SFCo incorporated as a wholly owned subsidiary of AJ Industries.	K
<b>October 1971</b>	➤ A LA County Health Department file note indicates former use of “ <i>657 chlorinated safety solvent</i> ”, which had been replaced by a hot caustic bath. File notes in other agency files appear to indicate that chlorinated solvent use was largely limited to hand application in cleaning of parts for welding and coating.	L
<b>1971 to 1972</b>	➤ SFCo fulfilled a one-year contract to manufacture napalm-filled delivery devices. During this period SFCo utilized 1.13 million gallons of benzene and 0.34 million gallons of gasoline, which were stored in five 10,000-gallon USTs immediately west of the current maintenance building. These USTs were later removed and closed out with applicable agencies, as discussed in items R and X below.	M
<b>1971</b>	➤ A 1,000-gallon gasoline single-walled steel UST was installed south of the current maintenance building, used to fuel site vehicles. This UST was later removed and closed out with applicable agencies, as discussed in items T, Y and DD below.	N
<b>February 1979</b>	➤ A LA County Health Department file note indicates external fuel tank manufacturing operations as follows <i>sic</i> : “ <i>sheet metal aluminum, stainless steel, copper; mill thickness; grinder; weld; assemble; metal test (HNO3/H2SO4); painting; forming; assembly; glue foam (?); MEK</i> ”.	O
<b>1980</b>	➤ Test Stand 4 was constructed.	P
<b>1983</b>	➤ A submittal to the US EPA in response to a records request associated with the SEMOU shows the following materials in use at the subject property between 1966 and 1983, which appear to indicate similar operations to those current: <ul style="list-style-type: none"> <li>○ Liquid caustic</li> <li>○ Deoxidizers</li> <li>○ Alodine</li> <li>○ Aluma Xote</li> <li>○ Nitric</li> <li>○ Concentrated HCl</li> <li>○ MEK</li> <li>○ Toluene</li> <li>○ Petroleum naphtha</li> <li>○ Mineral spirits</li> </ul>	Q

	<ul style="list-style-type: none"> <li>○ Coating thinner</li> <li>○ Various oils</li> <li>○ Ridoline</li> </ul>	
<b>May 1985</b>	➤ May 1985 Converse Consultants Site Investigation and Clean Up Report. The report documents removal of the five 10,000-gallon USTs associated with the napalm contract, and removal of associated impacted soils. Impacts were noted to be limited in extent and to soil only. NFA status was subsequently granted by the DPW on June 27, 1985. See also item X below.	R
<b>1985</b>	➤ The current WWTP sub-grade effluent tank was installed, which is believed to have replaced two former USTs used for the same function.	S
<b>January 1988</b>	➤ A 1,000-gallon gasoline UST installed in 1971 see (item N) was removed. In February 1988 Conservatech analyzed soil samples from the resulting excavation and detected 3,770 parts per million (ppm) total petroleum hydrocarbons (TPH). The area was subsequently investigated further by Geotechnical Consultants in June 1988,, which identified gasoline constituents to 9 feet bgs. This issue was subsequently addressed in January 1994 (see items Y and DD below).	T
<b>April 1988</b>	➤ URS Consultants Site Investigation of the site undertaken in response to a request from the RWQCB. Four borings to 40 feet bgs were advanced on the central portion of the site next to test stand 4, the paint shop and the former hazardous waste storage area on the central eastern site boundary. Based on the results of soil and groundwater analyses (which included a full suite of volatile organic compounds – VOCs) URS concluded that no significant evidence of contamination was found. Three borings were converted to groundwater monitoring wells and left in place. These monitoring wells were subsequently rolled into the RWQCB's Well Investigation Program (WIP).	U
<b>September 1988</b>	<p>➤ Geotechnical Consultants, Inc., Site Investigation AB1803 Follow Up Program report. Performed in response to a RWQCB request for investigation within (not next to) potential source areas, after the April 1988 report (see item U above). Six borings were advanced to 10.5 feet bgs. The report concluded that there was no evidence of soil contamination below the drum storage and chemical storage areas. Limited evidence of near-surface soil impact beneath the paint mixing area and solvent shed was identified. The report also concluded there was no evidence that site operations had degraded groundwater quality at the site.</p> <p>The RWQCB requested the three groundwater monitoring wells at the site be gauged and sampled on a monthly basis and quarterly monitoring reports submitted through the WIP. Following monthly groundwater sampling from June 1988 through December 1990, Geotechnical consultants again concluded "<i>activities at the ...site have not degraded groundwater quality</i>". The RWQCB subsequently denied a request to decommission the wells.</p>	V
<b>1989</b>	➤ The current ESS building was constructed.	W
<b>December 1992</b>	➤ SCS Engineers, Preliminary Site Investigation, Five 10,000-Gallon USTs. It appears that the RWQCB requested additional investigation in the area of the former USTs, despite the prior NFA granted by the DPW (which has ultimate jurisdiction over the UST issue). Two additional borings were advanced and soil and groundwater samples collected. No significant impacts were detected and SCS concluded that NFA should be granted. A January 1993 letter from the DPW confirms that investigation and remediation activities associated with the	X

	USTs was complete.	
<b>January 1994</b>	➤ SCS Engineers Remedial Action Plan, Former 1,000-gallon UST Area. The report detailed plans to remove and close the former 1,000-gallon gasoline UST located immediately south of the current maintenance building. See items N, T and DD.	Y
<b>June 1994</b>	➤ ICF Kaiser (ICF) Phase I ESA of the subject property. ICF identified historical impacts to the site, which are summarized elsewhere in Section 4 of this report, and within this table.	Z
<b>July 1994</b>	<p>➤ ICF Limited Phase II of the subject property, including the collection of soil, soil gas and groundwater samples. The ICF report included the results of a prior 1994 Soil Gas Survey completed by SCS. Based upon ERM's review of the ICF report, VOCs were detected in shallow soil gas samples (5 feet below ground surface), but not at depth (10 feet below ground surface), indicating local impacts confined to the near-surface only (less than 10 feet below ground surface). The SCS soil gas survey included a soil vapor sample collected from adjacent to the former location of a 1,1,1-trichloroethylene (1,1,1-TCA) parts degreaser by SCS (discussed further in 4.4.4.1, below). Traces of 1,1,1-TCA and 1,1-dichloroethene (1,1-DCE) vapors were detected (13.2 and 7.3 micrograms per liter ug/l -respectively), which were below regulatory action levels at the time and are below current regulatory levels (the current California Human Health Screening Level (CHHSL) for 1,1,1-TCA is 2,790 ug/l for an industrial property; there is no current CHHSL for 1,1-DCE). Based on ERM's review, the soil vapor levels at the location of the former parts degreaser do not appear to indicate soil vapor impacts that would trigger further regulatory action.</p> <p>In addition to reporting the SCS results, ICF's own investigation identified traces of VOCs in shallow soil and soil vapor samples in certain areas of the site (then active hazardous waste storage area; the paint shop; test stands 1, 2 and 3; former USTs location; and former hazardous waste storage area). Based on ERM's review, the distribution of the shallow soil impacts does not appear to be indicative of, or likely to represent, gross or site-wide impacts. Rather the results appear to indicate shallow, localized impacts relative to surrounding soils.</p> <p>ICF stated that there did not appear to be a significant source of chemicals of concern beneath the site and vertical migration of chemicals of concern appeared to be limited. Neither the ICF results nor the SCS soil gas data provided within the ICF report identified evidence to suggest impact to groundwater at levels that would trigger regulatory action.</p>	AA
<b>September 1994</b>	➤ Following SFCo's entry into Chapter 11 bankruptcy earlier in 1994, certain assets of SFCo were subsequently acquired later that year by FR Acquisitions, Inc. (which became SFI), to form the current SFI operating entity as part of Cobham plc. On September 23, 1994 FR Acquisitions, Inc. entered into a nonbinding Agreement in Principle with the US EPA, which served as a conceptual outline and framework for the negotiation of the language and specific terms for inclusion in the Covenant Not To Sue described below.	BB
<b>May 1995</b>	➤ SFI entered into an Agreement and Covenant Not To Sue and agreed to pay \$500,000 and make other payments to settle out as a potentially responsible party (PRP) in association of the SEMOU of the San Gabriel Superfund site. The CNTS, which afforded protection against certain liabilities for then-existing conditions, included nine specific tasks to be completed by SFI, which were addressed in a Workplan completed by URS in May 1995. The CNTS is discussed above. Based on ERM's review, all nine tasks were completed and associated reports submitted to the RWQCB and US EPA by January 1998, meeting the document submittal requirements of the CNTS to the apparent satisfaction of the US EPA. See Table 1.	CC
<b>January</b>	➤ SCS Engineers Closure Report for the 1,000-gallon gasoline UST installed in 1971 (see items N, T and Y). The	DD

<p><b>1995</b></p>	<p>report documents the excavation and removal of impacted soils and associated sampling activities. The UST was subsequently granted NFA by the DPW on November 3, 1997 after a further review of associated documents and re-submittal by URS. The environmental database report lists an "open" Leaking Underground Storage Tank (LUST) status for the site (as of 1991) with the RWQCB. Based on ERM's review and in light of the November 3, 1997, NFA letter, this listing appears to be superseded.</p>	
<p><b>January 1997</b></p>	<p>➤ January 23, 1997 Dames and Moore subsurface soil investigation of the backup compressor area (northeast of MA building) pursuant to Task 2 of the CNTS. Three soil borings were advanced to 10 feet bgs and soil samples analyzed for total recoverable petroleum hydrocarbons (TRPH) and polychlorinated biphenyl (PCB). TRPH and PCB were detected at trace levels, below actionable criteria and as such Dames and Moore concluded that no further action was necessary.</p>	<p>EE</p>
<p><b>December 1997</b></p>	<p>➤ December 19, 1997 Dames and Moore fourth quarter (final) groundwater monitoring report pursuant to Task 8. In accordance with the requirements of Task 8, Dames and Moore installed two additional monitoring wells at the subject property (later rolled into the WIP program) and conducted quarterly sampling of the two new and three existing monitoring wells on the subject property. The purpose of the monitoring and sampling was to confirm prior groundwater results, which had not indicated the presence of impacts associated with subject property operations.</p> <p>Groundwater samples were analyzed for: halogenated VOCs (HVOCs); TPH- gasoline fraction; TPH-diesel fraction; and benzene, toluene, ethyl-benzene and xylene (BTEX).</p> <p>Results indicated that most contaminants were absent, or present at levels below laboratory limits of detection. Traces of trichloroethene (TCE) were detected in two up-gradient wells and perchloroethene (PCE) in one up-gradient well, significantly below drinking water standards and other action levels. Dames and Moore concluded that the results of the quarterly monitoring "...show no indication of significant groundwater impact beneath the SFI facility, nor that the SFI facility has contributed to groundwater contamination". Dames and Moore indicated that NFA status should be granted for the subject property.</p>	<p>FF</p>
<p><b>January 2000</b></p>	<p>➤ The RWQCB requested SFI, as well as numerous other operators in the area, to sample existing groundwater monitoring wells in association with its on-going investigations into the SEMOU. Two groundwater monitoring and sampling events were undertaken in accordance with the RWQCB's request and samples analyzed for: perchlorate; 1,4-dioxane; methyl-tertiary-butyl-ether (MTBE); and n-nitrosodimethylamine (NDMA). The results of the analysis were all below laboratory detection limits with the exception of two traces of 1,4-dioxane, which were close to laboratory detection limits and determined to be lower than the operable range of the laboratory testing equipment.</p> <p>As of the date of this report, the five WIP wells remain in place on the site, although the RWQCB has not requested sampling of the wells since January 2000.</p>	<p>GG</p>

**4.4.1.1 Discontinued Operations**

Fuel tanks have been manufactured at the subject property since 1953, and according to SFI representatives, operations have remained largely as current, with slight variations in materials use due to contract volume and type, and evolution of the manufacturing process. Significant changes in operations identified by ERM are noted below:

- During the 1950s and 1960s SFCo manufactured or otherwise assembled a trainer aircraft (later described as a crop duster). Given the size of the site and the nature of operations during that period, it appears more likely that

aircraft manufacturing was mainly an assembly process. During the 1950s the subject property was part of a larger SFCo airfield with a grass airstrip to the southeast.

- The current maintenance building was formerly a carpentry shop. A crating shop was also formerly located within the current CP building.
- The ESS building was formerly used for warehousing, although the nature of materials warehoused is not apparent.
- The current hazardous materials store was formerly used as a metalworking shop.
- SFCo operated a 1,1,1-TCA vapor parts degreaser in the central southern portion of the MA building, at least during the 1980s and possibly in the 1970s. Details on the unit are not known, although it is believed to have been an aboveground unit used for degreasing “small” parts. Based on ERM’s historical document review, it appears the 1,1,1-TCA was used prior to the degreaser in small quantities, being hand applied to parts on rags in preparation for welding and/or painting. SFI has not used 1,1,1-TCA or other chlorinated solvents at the site since its acquisition of SFCo in 1994. This issue is also discussed in the table above (row AA), which indicates that associated 1,1,1-TCA soil vapor levels at the location of the former degreaser are well below current CHHSLs, and are confined to shallow soils only, well above groundwater.
- Hazardous waste was formerly stored in at least two areas other than the current hazardous material store: one area on the southern portion of the site, next to the maintenance building; and one area on the eastern portion of the site, east of the ESS building.
- Paint was formerly stored in the current hazardous waste storage area. In addition, individual paint booths appear to have been operated at the site at least in the 1960s. At that time, it appears that paints and coatings were applied to parts by hand, as opposed to the current automated system. The 1960s paint booths utilized filters to control emissions.
- During a one-year period in 1971 to 1972 SFCo manufactured a napalm delivery device at the site, with the associated storage of napalm components (gasoline and benzene) in five 10,000-gallon USTs located immediately west of the maintenance building. The USTs were removed in 1988 and subsequently issued No Further Action status, as discussed above (see items M, R and X in Table 4.4.1).
- Some evidence exists to suggest SFCo may formerly have operated at least one UST in association with the WWTP, circa 1985, associated with chromium reduction and precipitation. Little further detail appears to be available on the UST, although DPW files include a permit application for a “plasteel” (fiberglass and steel) double-walled unit. No documentation associated with its installation, operation or removal has been identified and it is possible the UST was never actually installed.
- SFCo previously manufactured shell casings in the 1960s. Operations appear to have been limited to metalworking and forming. ERM’s review of historical documents does not indicate that live ordnance was stored or used at the subject property.

#### 4.4.2 *Adjacent Properties and Surrounding Area*

The chronology of the adjacent properties and surrounding area is based on ERM’s review of reasonably ascertainable resources researched for the subject property.

Surrounding properties were in agricultural use by at least 1900. By 1928 Flair Drive had been constructed to the north of the subject property, beyond which to the northwest were scattered residences. During this period Rio Hondo was non-engineered, flowing in its natural drainage channel.

By 1949 properties to the south, southeast and east of the site were part of the airfield property, with a grass runway running northeast to southwest, southeast of the subject site. By 1956 engineering of the Rio Hondo was well underway, with the construction of the current concrete channel. Residential development to the north was as current and I-10 had been constructed.

By 1968 the current road system in the immediate vicinity of the subject site has been constructed and development of the current surrounding commercial and industrial buildings had begun. By 1976 the surrounding areas had been developed largely as current.

No indications of environmental concerns having occurred on, or in the surrounding area of the subject property were observed by ERM during a drive-by inspection of surrounding properties. However, given the industrial history of the general site area since the 1960s, there is a general impact concern, although site soil and groundwater sampling data does not appear to indicate an associated significant impact concern.

#### *4.4.3 Non-Regulatory Interviews*

Information obtained through interviews with SFI and agency representatives is discussed in the applicable sections throughout this report.

## 5. Database and Government Records Review



### 5.1 Government Records Review/Interviews

ERM requested information from various agencies that were expected to have useful records relating to the subject property. The complete list of agency sources contacted is included in Table 4.3. Relevant government record reviews/interviews are summarized in Section 4 (mainly historical data) and other relevant headings of this report.

### 5.2 Environmental Database Search

ERM contracted EDR to conduct a database search for agency records in accordance with ASTM E-1527-05. The database report, presented in Appendix D, defines and summarizes the ASTM databases reviewed in the EDR report and notes if any sites (including the subject property) were identified in the specified radius. The locations of the sites identified in the EDR report were evaluated to determine which sites were located within the ASTM specified search distance from the subject property boundary. Only those sites worthy of further discussion because of their potential to impact the subject property are discussed below and data on additional sites is in the appended EDR database report.

It should be noted that the computerized geocoding technology used in the database search is based on available census data and is only accurate to approximately  $\pm 300$  feet. The EDR report provides a list of unmapped sites for which inadequate location information was provided. ERM has reviewed the list of “unmapped” sites to determine if these sites are within the study radius. If the “unmapped” sites appeared likely to be within the search radius for a specific database, they are discussed in the sections that follow.

Based on maps of the area, the required database search radius for a given database, and the site reconnaissance, it appears that none of the unmapped sites are within the designated search distances for each database, although the listing for Fletcher Aviation is discussed as part of the subject property.

Sites identified within the study radii were evaluated to determine if they are likely to have adversely impacted the subject property. The criteria used to evaluate the potential for adverse impact to the subject property include:

- distance from the subject property;
- expected depth and direction of groundwater and surface water flow;
- geology and physical ground conditions;
- expected storm water flow direction;
- nature of database listing and regulatory status; and
- the presence/absence of documented contaminant releases at the identified sites that have not been remedied to the satisfaction of regulators.

The identification of a site as potentially upgradient or downgradient is based on the established direction of groundwater flow to the southwest.

#### 5.2.1 Subject Property

SFI is listed on the following databases related to site investigation and sampling under EPA, RWQCB, DTSC and LA County oversight, as discussed in Section 4: LA Co. Site Mitigation; California Facility Inventory Database of

underground storage tanks (CA FID UST); spills, leaks, investigations and cleanups (SLIC); leaking USTs (LUST); Well Investigation Program (WIP); and Historical USTs (Hist UST). These listings are related to the various programs under which the subject property was investigated in the 1980s and 1990s. The LUST and Hist UST listings are related to the two former gasoline USTs and the five former 10,000-gallon gasoline and benzene USTs, as discussed above. The remaining databases are related to the soil and groundwater sampling undertaken at the subject property, as discussed above. The WIP was established by the RWQCB (in the case of the site area) to provide groundwater monitoring at various facilities in order to better understand regional impacts associated with the SEMOU and the San Gabriel Valley Superfund as a whole.

SFI is also listed on the Facility Index System (FINDS), facility hazardous waste manifest data system (HAZNET), Los Angeles County hazardous waste manifest and UST tracking system (LA Co. HMS) and air emissions reporting index (EMI) in relation to various compliance programs. These listings are not indicative of a release. Information on the HAZNET database confirms data reviewed on the subject property and discussed in Section 3 with respect to hazardous material use and storage and hazardous waste generation. Air emissions appear to indicate that SFI operations have not significantly altered for at least 10 years.

The subject property and surrounding area are located within the SEMOU of the San Gabriel Superfund, established in 1980 and finally listed on the NPL in 1984. As discussed in Section 4, the subject property has been subject to a number of investigations in connection with this NPL site, although no evidence of significant contributory impacts in soil and groundwater have been identified at the subject site. SFI was identified as a de-minimis PRP in association with the SEMOU, and settled in 1995, as discussed in Section 4.

#### 5.2.2 *Surrounding Properties*

A number of database sites are present in the vicinity of the subject property. Most of these sites can be ruled out as having adversely impacted the subject property because: (1) the case has been closed to the satisfaction of regulators, (2) the listed facilities are located downgradient or crossgradient of the subject property relative to the established ground water flow direction to the southwest, or (3) they are not located within a distance to the subject property that is likely to have an adverse impact.

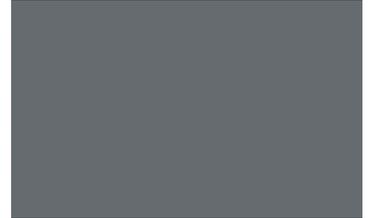
Based on the above criteria, only the following listed surrounding facilities, which are located within 0.25 mile of the subject property and assumed to be upgradient, are worthy of note and further discussion:

- The subject property and surrounding area is located within the SEMOU of the San Gabriel Superfund. Based on the database report and other documents reviewed by ERM, it appears that the main plumes associated with the NPL site are located approximately 0.25 mile and beyond to the northeast, and greater than 0.25 mile southwest of the subject property. Cleanup of the SEMOU is currently ongoing, with numerous industrial facilities, including the subject property, listed on the RWQCB's WIP, with registered groundwater monitoring wells on site to provide regional groundwater data for the SEMOU NPL site.
- Robert and Deborah Garcia, 9530 Olney Street, approximately 0.125 mile northeast of the subject site are listed as a RCRA Non-Gen and formerly as a small quantity generator (SQG) of hazardous waste. No violations are listed and nothing on the environmental database report is suggestive of a potential release at the listed facility that could have the potential to impact the subject site.
- According to the EDR report, Raytheon Computer is located at 9550 Flair Drive, approximately 0.125 mile east of the subject site and is listed on the WIP and SLIC databases. This facility is located within the SEMOU and appears to have been investigated in a manner similar to the subject property. Although no further details are provided on the environmental database report, the site status is listed as open as of November 1987. ERM identified the facility on the California EPA's Envirostor website, which indicated discovery of groundwater contamination occurred in 1965. Based on a conversation with RWQCB staff, the case is not currently being actively worked on due to staff shortages and as such can be considered a low priority. On this basis, although there is a potential for associated

impact to the site given the age of the release, soil and groundwater data from the subject site have not identified a potential associated impact concern.

- XPEDX Papers and Graphics, 9620 Flair Drive, approximately 0.25 mile northwest of the subject property, is listed on the WIP and SLIC databases. Both listings are related to cleanup program activities at the facility, although further details are not provided. This facility is located within the SEMOU and appears to have been investigated in a manner similar to the subject property. The listings date from 2000 and as such post-date soil and groundwater data from the subject property. Given that on-site sampling occurred prior to these listings, there is a potential for associated impact to the subject property.

## 6. Additional ASTM Scope Requirements



### 6.1 Discussion of ASTM definitions

A *Recognized Environmental Condition (REC)*, as defined in ASTM E 1527-05, is “The presence or likely presence of hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property...The term is not intended to include de minimis conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.”

A *Historical REC* is defined as “...an environmental condition which in the past would have been considered a recognized environmental condition, but may or may not be considered a recognized environmental condition currently.”

A *de minimis condition* is defined as issues which are not considered a REC and “...generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.”

A *data gap* is defined as the “lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to site reconnaissance (for example, an inability to conduct the site visit), and interviews (for example, an inability to interview the key site manager, regulatory officials, etc.). The report shall identify and comment on significant data gaps that affect the ability of the EP to identify recognized environmental conditions and identify the sources of information that were consulted to address the data gaps.”

A *data failure* occurs “when all of the standard historical sources that are reasonably ascertainable [within the User-prescribed timeframe] and likely to be useful have been reviewed and yet the objectives have not been met. Data failure is not uncommon in trying to identify the use of the property at five year intervals back to first use or 1940 (whichever is earlier). Notwithstanding a data failure, standard historical sources may be excluded if: (1) the sources are not reasonably ascertainable, or (2) if past experience indicates that the sources are not likely to be sufficiently useful, accurate, or complete in terms of satisfying the objectives.”

The *User* of the report is defined as “...the party seeking to use Practice E 1527 to complete an environmental site assessment of the property. A user may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager.”

### 6.2 Data Gaps

No significant datagaps that have the potential to affect ERM's ability to derive reasonable conclusions regarding the subject property have been identified. Although a complete understanding of historical operations can not be reasonably achieved, the significant volume of historical data, together with soil and groundwater sampling results from the 1980s to 2000 do not appear to indicate gross or site-wide impact concerns associated with the subject property.

### 6.3 User Provided Information

ERM contacted the User with respect to the following information:

- An evaluation of the presence of Environmental Cleanup Liens for the subject property;
- Activity and Use Limitations such as engineering controls (e.g., slurry walls, caps) and land use restrictions or institutional controls (e.g., deed restrictions, covenants) that may be in place for the subject property;
- Specialized Knowledge that includes personal knowledge or experience related to the subject property or nearby properties based on professional experience or knowledge of the subject property;
- Fair Market Value to evaluate whether a purchase price is significantly below Fair Market Value;
- Obvious Indicators that involve past or present spills, stains, releases, cleanups on or near the subject property; and
- Common Knowledge about specific chemicals, possible contamination, or past use of the subject property and surrounding area.

The User Questionnaire for Phase I ESA (User Questionnaire) was completed by the User and issued to ERM on April 13, 2009. The User Questionnaire is attached as Appendix D. Responses are discussed in the table below.

**Table 6.3 User- Provided Information**

User Request	Response
Environmental Cleanup Liens	The User is not aware of any environmental liens currently recorded against the subject property. ERM procured an environmental lien search for the subject property through EDR. No environmental liens were identified. The CNTS associated with SFI is discussed above.
Activity Use Limitations and land use restrictions or institutional controls	The User is not aware of any Activity Use Limitations and/or land use restrictions currently recorded against the subject property. The CNTS required SFI to record the CNTS with the LA County Recorder shortly after its execution and delivery. ERM has found no evidence that the CNTS has been recorded. ERM understands that SFI intends to record the CNTS at or prior to the sale of the site. ERM further understands that SFI has obtained verbal confirmation from EPA counsel that, if the CNTS is recorded at or prior to the sale of the site, then the recording requirement will be considered satisfied.
Specialized Knowledge	User has no specialized knowledge of the site other than what was provided in SFI files at the subject property. Information obtained from the document review is summarized throughout this report. ERM is not aware of additional specialized knowledge for the site.
Fair Market Value	User is not aware of devaluation of the purchase price or fair market value.
Obvious Indicators that involve past or present spills, stains releases or cleanups	User was not aware of obvious indicators that involve past or present spills, stains releases or cleanups.
Common Knowledge about specific chemicals, possible contamination, or past use	Information and documentation, including previous environmental investigations was provided to ERM in the form of access to on-site files and through extensive agency review, and is presented throughout this report in the relevant report sections and appendices.

### 6.4 Reason for Performing Phase I

This Phase I ESA has been performed to identify recognized environmental conditions at the subject property as defined in the ASTM E1527-05 standard and to provide technical assistance to SFI in connection with the planned closure and divestiture of the subject property.

## 7. Conclusions



ERM conducted a Phase I ESA at the subject property. Our conclusions and opinions are based on a scope of work that followed the requirements set forth in ASTM Standard E 1527-05 and 40 CFR 312. A summary of ERM's conclusions and opinions are presented below.

### ***Recognized Environmental Conditions***

Based on the data obtained during the site visit, the environmental database review, and interviews with persons familiar with the site and its history, the following Recognized Environmental Conditions (RECs) were identified as part of this assessment:

- *Historical On-Site Operations:* The site has been in continuous industrial use since at least 1953, for the manufacture of external aircraft fuel drop tanks and, for a limited period in the 1950s, aircraft assembly. During that period acids, caustics paints and solvents have been utilized on site, together with oils, gasoline and benzene. The volumes used and types of materials stored at the site has varied over time, depending upon manufacturing contracts and process evolution. The subject property was the subject of numerous soil gas, soil and groundwater sampling investigations in the 1980s and 1990s, with the last groundwater sampling exercise completed in 2000. Based on the results of those investigations, no evidence of gross or site-wide impacts was identified, although localized near-surface soil impacts were encountered.
- *Off-site Facility:* XPEDX Papers and Graphics, 9620 Flair Drive, located approximately 0.25 mile northwest and in a hydraulically upgradient location relative to the subject property, is listed on the well investigation program (WIP) and spills, leaks, investigations and cleanups (SLIC) databases. Both listings are related to cleanup program activities at the facility, although further details are not provided in the environmental database report reviewed by ERM or on the California Environmental Protection Agency's Envirostor website. The listing dates from 2000 and as such post-dates soil and groundwater data collection efforts from the subject property. On that basis, there is a low potential for associated impact to the subject property.

### ***Historical Recognized Environmental Conditions***

The following Historical Recognized Environmental Conditions (HRECs) were identified as part of this assessment:

- *Former 10,000-Gallon Underground Storage Tanks (USTs):* Five 10,000-gallon USTs were used to store benzene and gasoline on the southern portion of the site (west of the maintenance building) in association with a one-year military contract in 1971 and 1972. No details on the period of use of the USTs have been identified during ERM's review. The USTs were installed in 1971, removed in 1988 and the case subsequently closed in 1993 by the LA County Department of Public Works (DPW).
- *Former 1,000-Gallon USTs:* A 1,000-gallon gasoline UST was installed south of the maintenance building in 1971, used to fuel on-site vehicles. The UST was removed in 1988 and subsequently granted "No Further Action" status by the DPW on November 3, 1997 after a further review of associated documents and re-submittal of reports by SFI's consultant, URS.

### ***Other Noteworthy Issues***

The following noteworthy issue was identified during the course of ERM's review:

- *Asbestos Containing Materials:* A 1996 Preliminary Asbestos Survey Report, identified asbestos in 9-inch by 9-inch ceiling tile, mastic, pipe elbow insulation and transite wall panels. During the site visit, ERM observed several suspect ACMs including: floor tile/mastic; ceiling tile/mastic; vinyl baseboard/mastic; drywall systems; potential transite panels in Tests stands 1 to 3; thermal system insulation externally on the CP building; and composite roofing materials. From ERM's vantage points, these materials appeared to be in good condition.

## 8. Qualifications of Environmental Professionals



This assessment was conducted by Mr. Simon Mendum and Ms. Jennifer Brady of ERM. Mr. Simon Mendum, Project Manager and Mr. Paul Hausmann, Partner In Charge, both of ERM, reviewed the contents of this report. The professional qualifications for Ms. Brady, Mr. Mendum and Mr. Hausmann are included in Appendix F. The signatures for Mr. Mendum and Mr. Hausmann are affixed onto the cover of this report. Mr. Hausmann is the designated Environmental Professional for this project and prepared the following declaration.

- I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312.
- I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

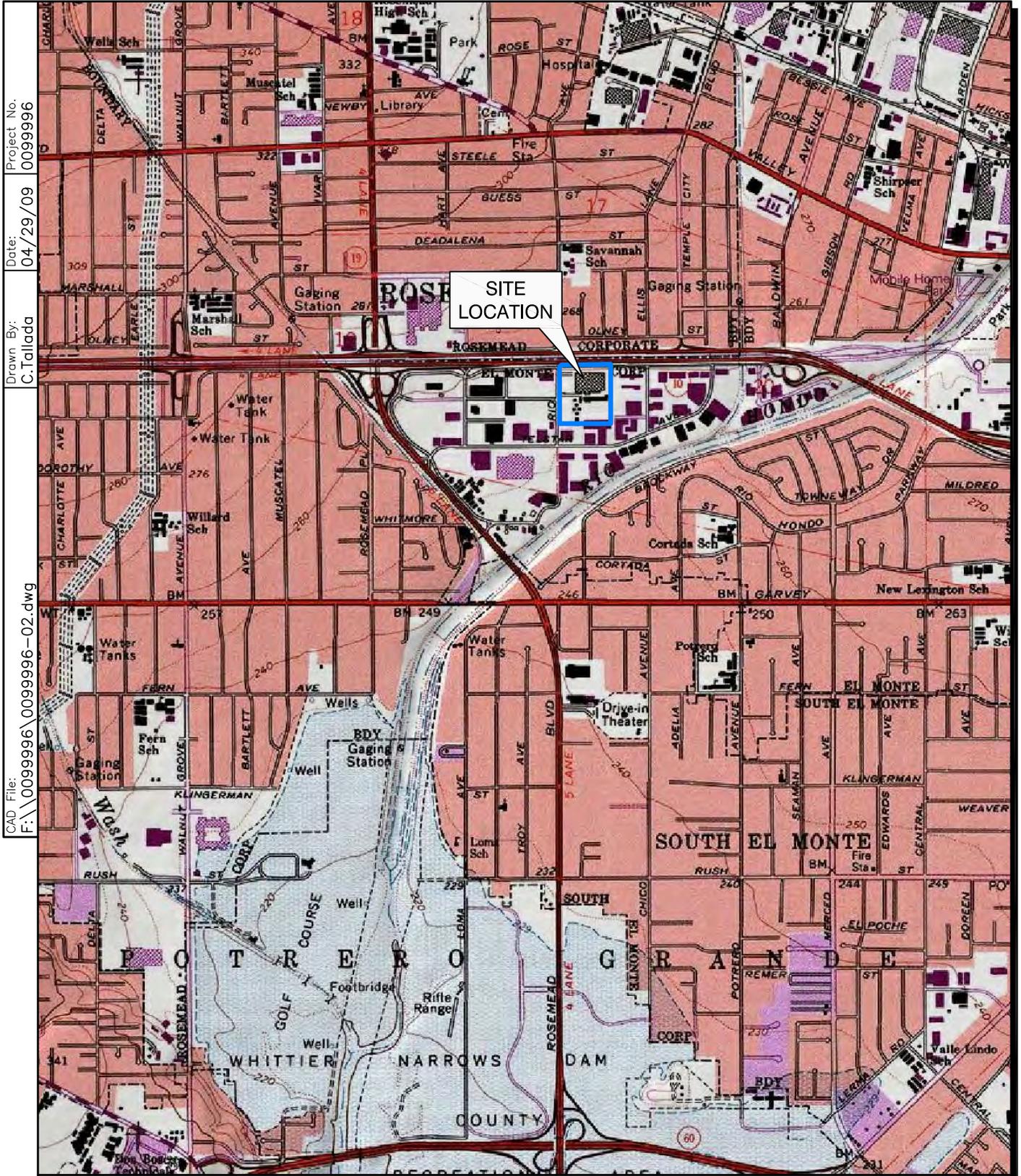
## 9. Limitations



The innocent landowner, contiguous owner, and prospective purchaser defenses to liability under CERCLA require that a person acquiring property conduct an all appropriate inquiry with respect to the subject property. ERM has conducted this environmental assessment in accordance with the standards for conducting an all appropriate inquiry set forth at 40 CFR Part 312. Those standards require the application of scientific principles and professional judgment to certain facts with resultant subjective interpretations and exercise of discretion. Professional judgments expressed herein are based on the facts currently available within the limits of the existing data, and data gaps identified herein, scope of work, budget, and schedule. Those standards also require that the client undertake certain additional inquiries and actions. Therefore, except as provided in our agreement with the client, ERM makes no warranties, expressed or implied, including, without limitation, warranties as to merchantability or fitness for a particular purpose, including any warranty that this Phase I assessment will in fact qualify client for the innocent landowner, contiguous property owner or prospective purchaser defense to liability under CERCLA. ERM's assessment is limited strictly to compliance with the all appropriate inquiry standard set forth at 40 CFR Part 312 and identifying recognized environmental conditions associated with the subject property. Results of this assessment are based upon the visual site inspection of readily accessible areas of the subject property conducted by ERM personnel, information from interviews with knowledgeable persons regarding the site, information review regarding historical uses, information provided by contacted regulatory agencies, and review of publicly available and practically reviewable information identifying current and historical uses of the property and surrounding properties. All conclusions and recommendations regarding the subject property represent the professional opinions of the ERM personnel involved with the project, and the results of this report should not be considered a legal interpretation of existing environmental regulations. Except as provided in our agreement with the client, ERM assumes no responsibility or liability for errors in the public data utilized, statements from sources outside of ERM, or developments resulting from situations outside the scope of this project.

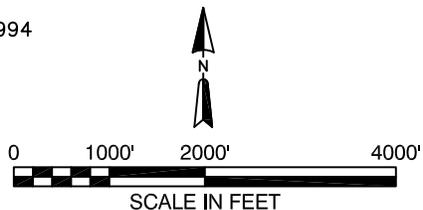
**Figures**



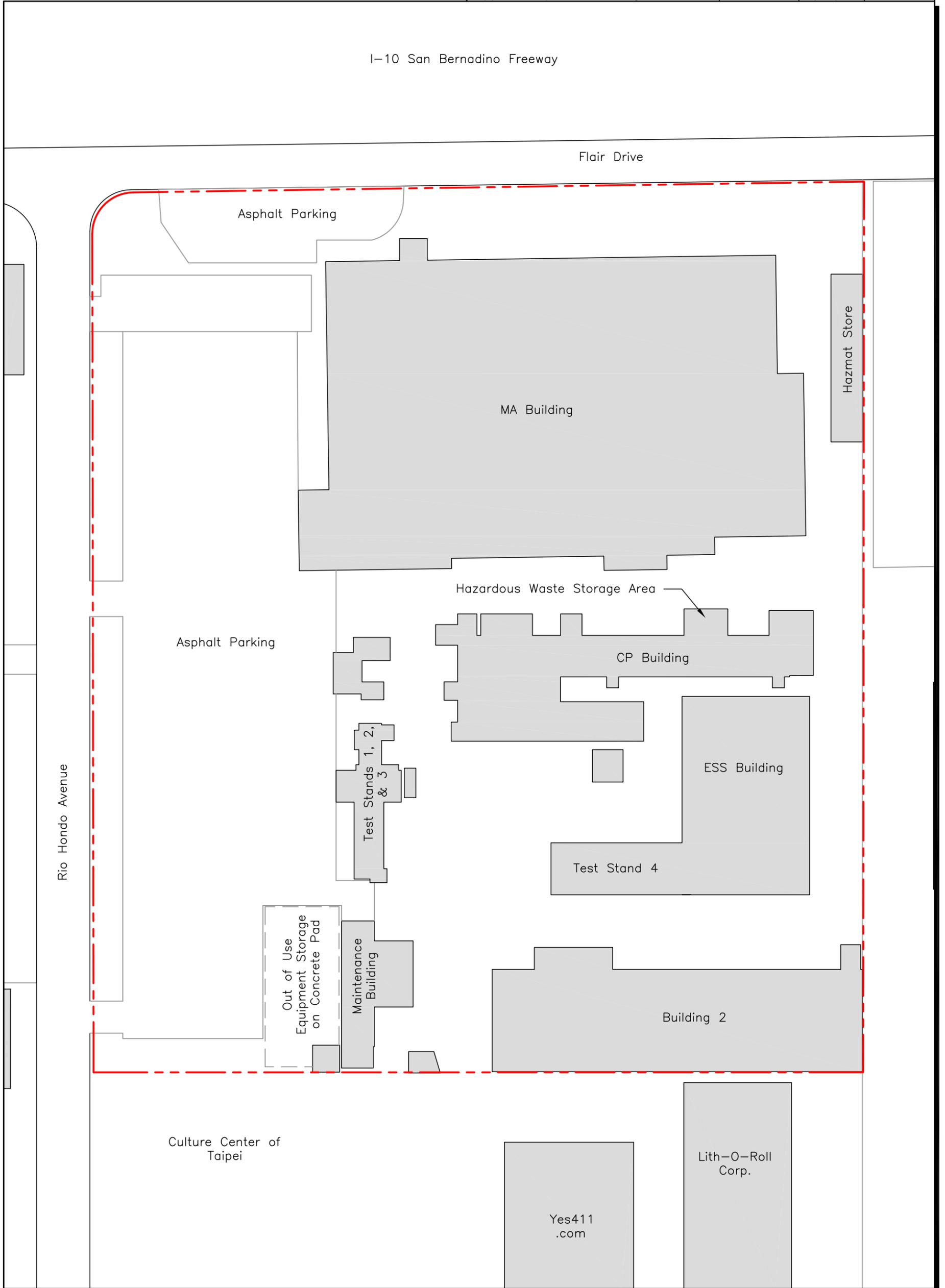


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 Drawn By: C. Tallada  
 Date: 04/29/09  
 Project No. 0099996

**References:**  
 U.S.G.S. 7.5 Minute Series (Topographic) Quadrangle,  
 (El Monte, California)  
 Map Version: 1991 Current Version: 1994



**Figure 1**  
*Site Location Map*  
*Sargent-Fletcher, Inc.*  
*9400 Flair Drive*  
*El Monte, California*



**LEGEND**  
- - - - - Approximate Site Boundary

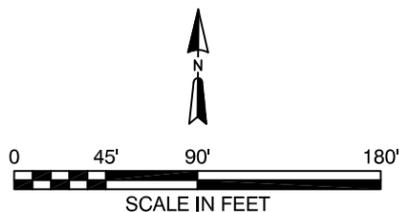


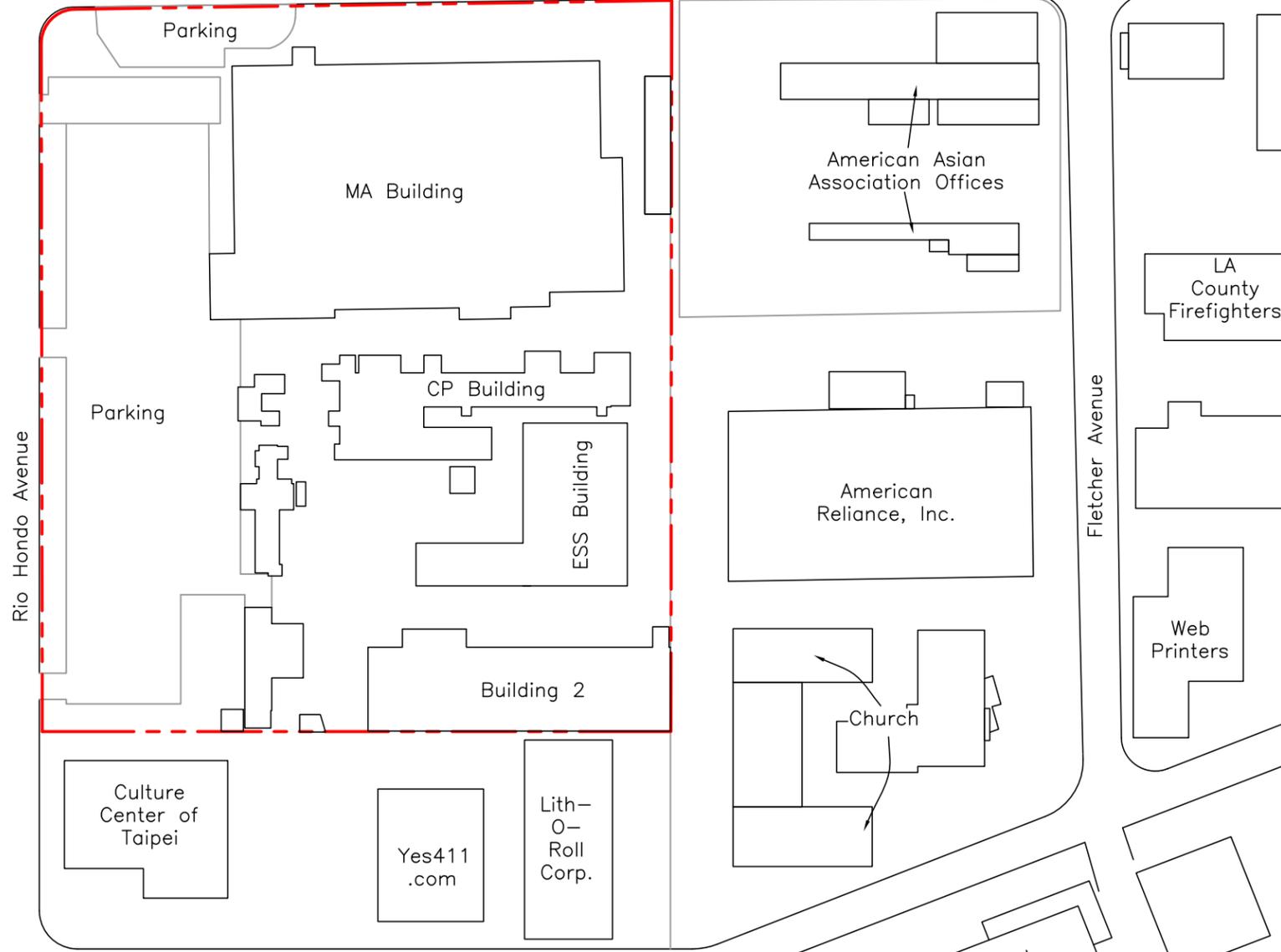
Figure 2  
Site Layout Map  
Sargent-Fletcher, Inc.  
9400 Flair Drive  
El Monte, California

Project No. 0099996  
Date: 04/29/09  
Drawn By: C. Tallada  
CAD File: F:\0099996\0099996-01.dwg

Residential Area

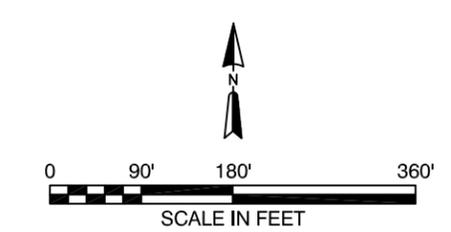
I-10 San Bernadino Freeway

Flair Drive

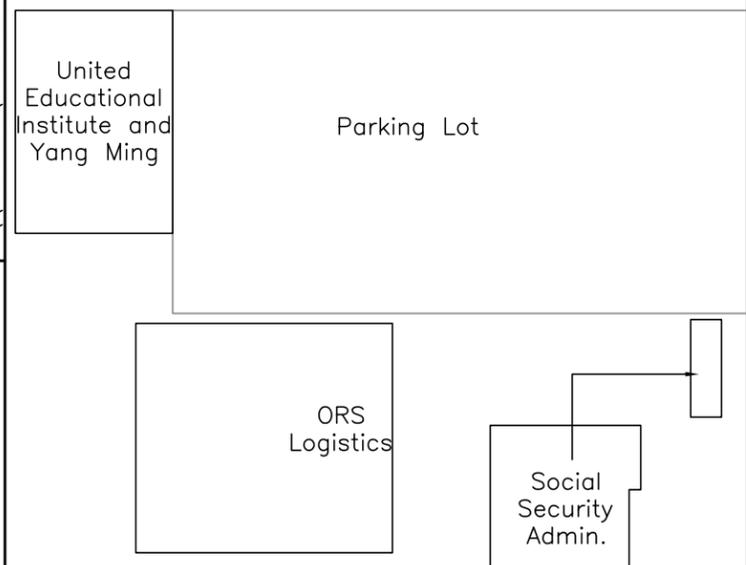
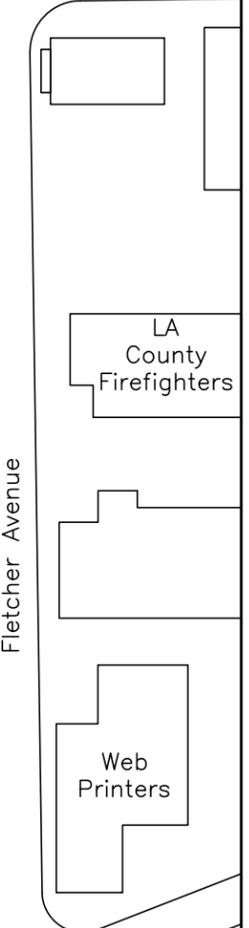
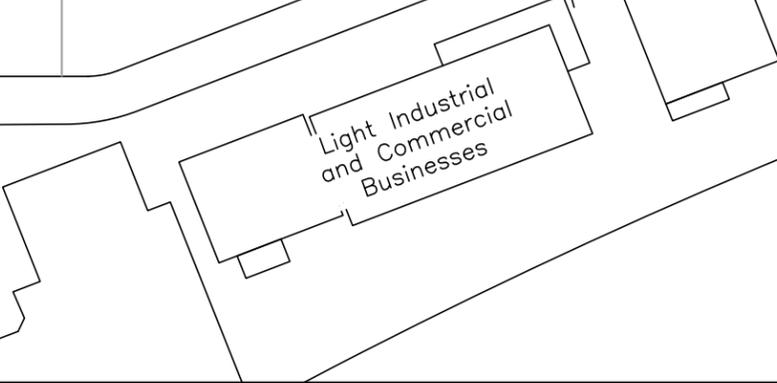
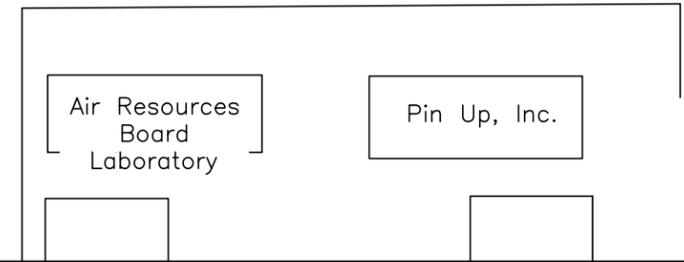
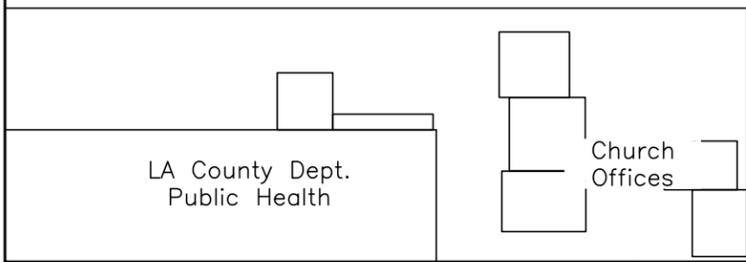
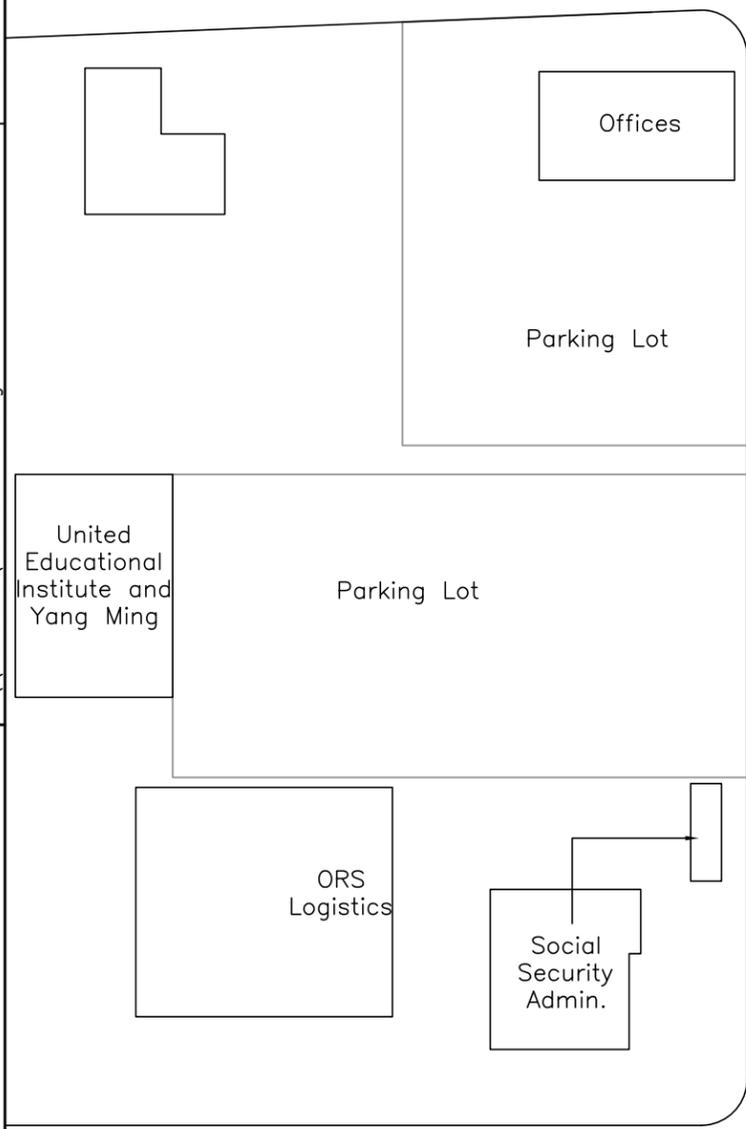


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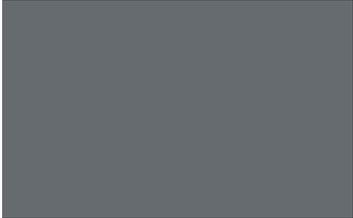
--- Approximate Site Boundary



**Figure 3**  
*Surrounding Area Map*  
*Sargent-Fletcher, Inc.*  
*9400 Flair Drive*  
*El Monte, California*



**Appendix A**  
Site Photographs



## Sargent Fletcher, Inc., El Monte, California: Photolog

Photo 1 Central portion of site, looking north.



Photo 2 Hazardous materials store on northwestern portion of site.



**Sargent Fletcher, Inc., El Monte, California: Photolog**

**Photo 3** Hazardous materials store on northwestern portion of site.



**Photo 4** Hazardous waste storage area.



**Sargent Fletcher, Inc., El Monte, California: Photolog**

**Photo 5** Hazardous waste storage area.



**Photo 6** Wastewater treatment plant.



## Sargent Fletcher, Inc., El Monte, California: Photolog

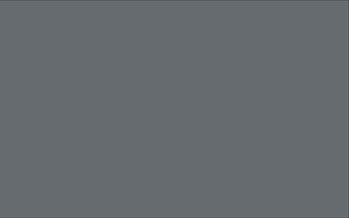
Photo 7 Site frontage on to E. Flair Drive (northern portion of site).



Photo 8 Western portion of site.



**Appendix B**  
Historical Sources





**Sargent Fletcher, Inc.**

9400 Flair Drive

El Monte, CA 91731

Inquiry Number: 2465694.3

April 13, 2009

## Certified Sanborn® Map Report

# Certified Sanborn® Map Report

4/13/09

**Site Name:**

Sargent Fletcher, Inc.  
9400 Flair Drive  
El Monte, CA 91731

**Client Name:**

ERM - West, Inc.  
2875 Michelle Drive  
Irvine, CA 92606



EDR Inquiry # 2465694.3

Contact: Simon Mendum

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by ERM - West, Inc. were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn) and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

## Certified Sanborn Results:

**Site Name:** Sargent Fletcher, Inc.  
**Address:** 9400 Flair Drive  
**City, State, Zip:** El Monte, CA 91731  
**Cross Street:**  
**P.O. #** 0099996  
**Project:** 0099996  
**Certification #** 23C8-4FD9-BC68



Sanborn® Library search results  
Certification # 23C8-4FD9-BC68

## 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 Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

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**Sargent Fletcher, Inc.**

9400 Flair Drive

El Monte, CA 91731

Inquiry Number: 2465694.5

April 13, 2009

## The EDR Aerial Photo Decade Package



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Milford, CT 06461  
800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

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**Date EDR Searched Historical Sources:**

Aerial Photography April 13, 2009

**Target Property:**

9400 Flair Drive

El Monte, CA 91731

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1928	Aerial Photograph. Scale: 1"=500'	Flight Year: 1928	Fairchild
1938	Aerial Photograph. Scale: 1"=555'	Flight Year: 1938	Laval
1949	Aerial Photograph. Scale: 1"=500'	Flight Year: 1949	Fairchild
1956	Aerial Photograph. Scale: 1"=400'	Flight Year: 1956	Fairchild
1968	Aerial Photograph. Scale: 1"=480'	Flight Year: 1968	Teledyne
1976	Aerial Photograph. Scale: 1"=666'	Flight Year: 1976	Teledyne
1989	Aerial Photograph. Scale: 1"=666'	Flight Year: 1989	USGS
1994	Aerial Photograph. Scale: 1"=666'	Flight Year: 1994	USGS
2002	Aerial Photograph. Scale: 1"=666'	Flight Year: 2002	USGS
2005	Aerial Photograph. Scale: 1"=484'	Flight Year: 2005	EDR



INQUIRY #: 2465694.5

YEAR: 1928

| = 500'





INQUIRY #: 2465694.5

YEAR: 1938

| = 555'





**INQUIRY #:** 2465694.5

**YEAR:** 1949

| = 500'





**INQUIRY #:** 2465694.5

**YEAR:** 1956

| = 400'





INQUIRY #: 2465694.5

YEAR: 1968

| = 480'





**INQUIRY #:** 2465694.5

**YEAR:** 1976

| = 666'





**INQUIRY #:** 2465694.5

**YEAR:** 1989

| = 666'





**INQUIRY #:** 2465694.5

**YEAR:** 1994

| = 666'





**INQUIRY #:** 2465694.5

**YEAR:** 2002

| = 666'





**INQUIRY #:** 2465694.5

**YEAR:** 2005

| = 484'





**Sargent Fletcher, Inc.**

9400 Flair Drive

El Monte, CA 91731

Inquiry Number: 2465694.4

April 13, 2009

# The EDR Historical Topographic Map Report

# EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

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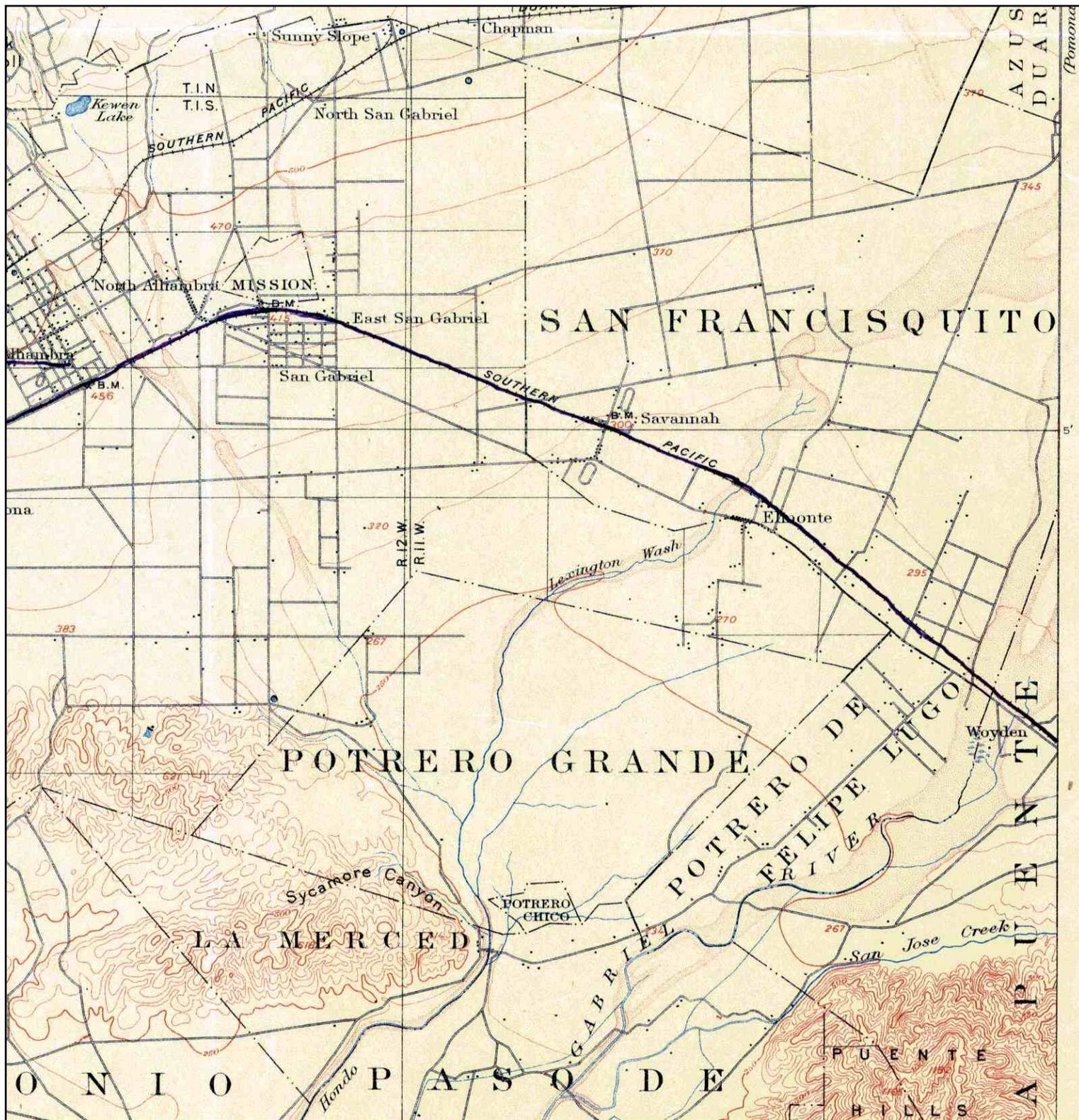
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# Historical Topographic Map



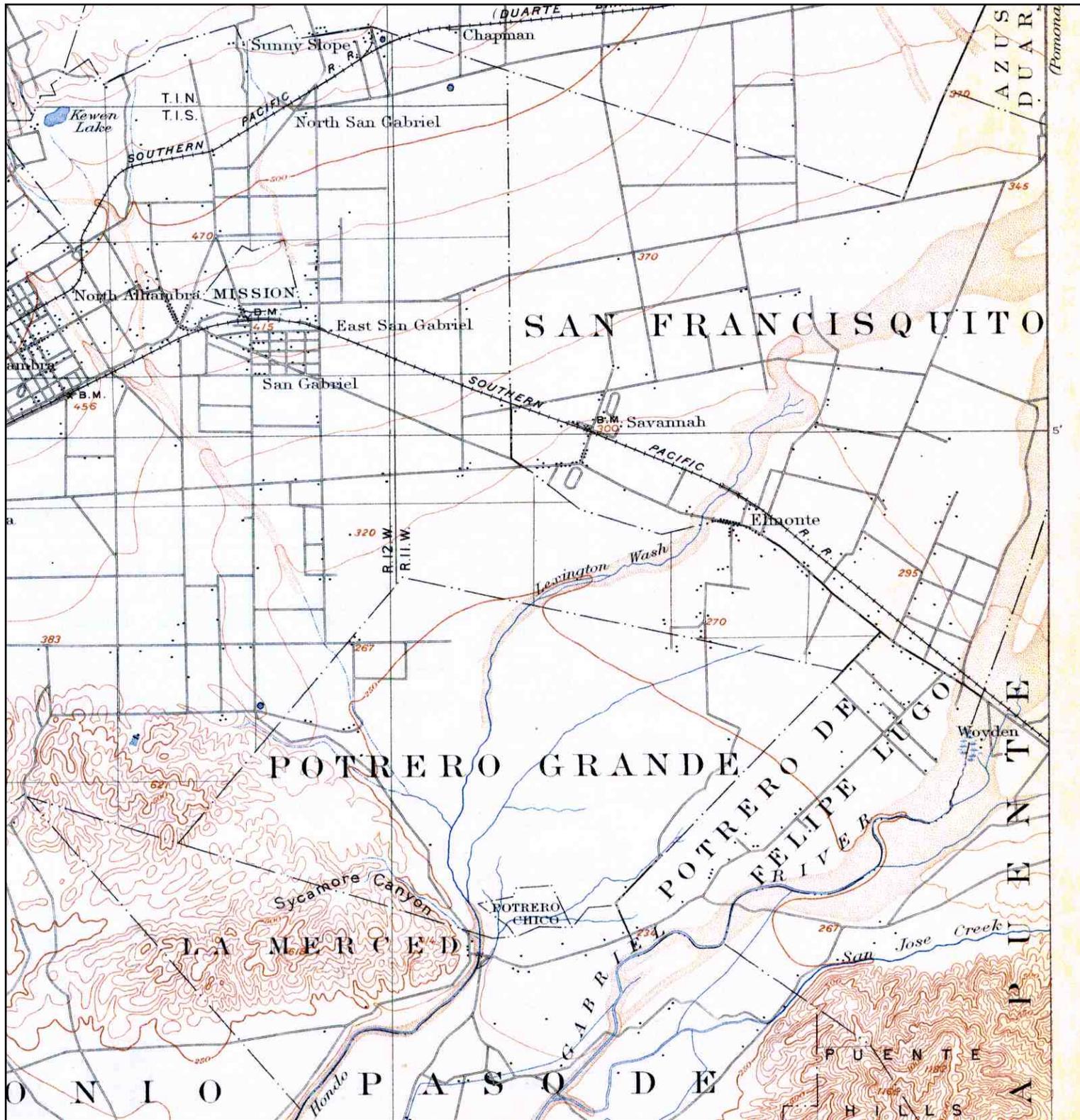
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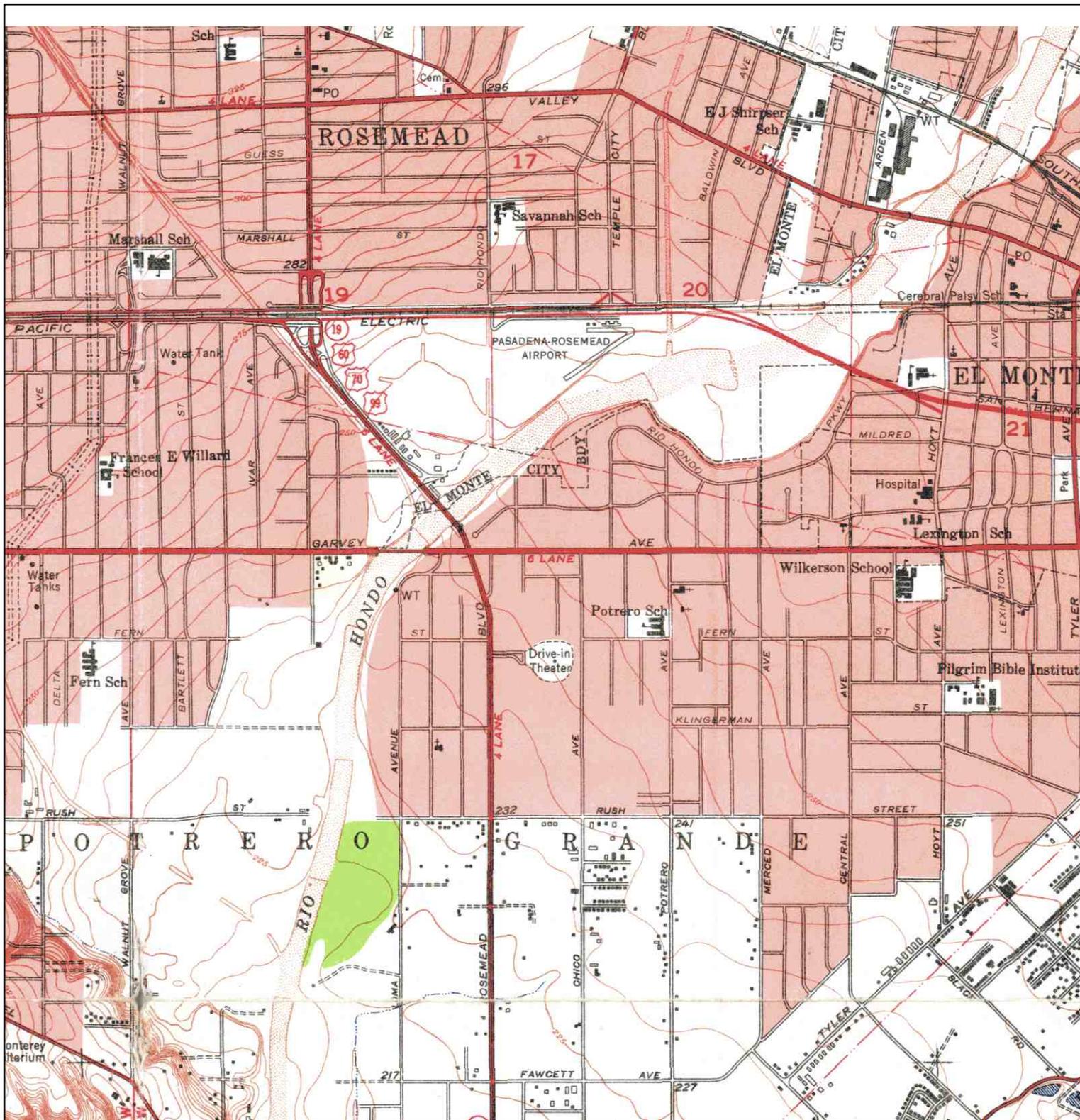
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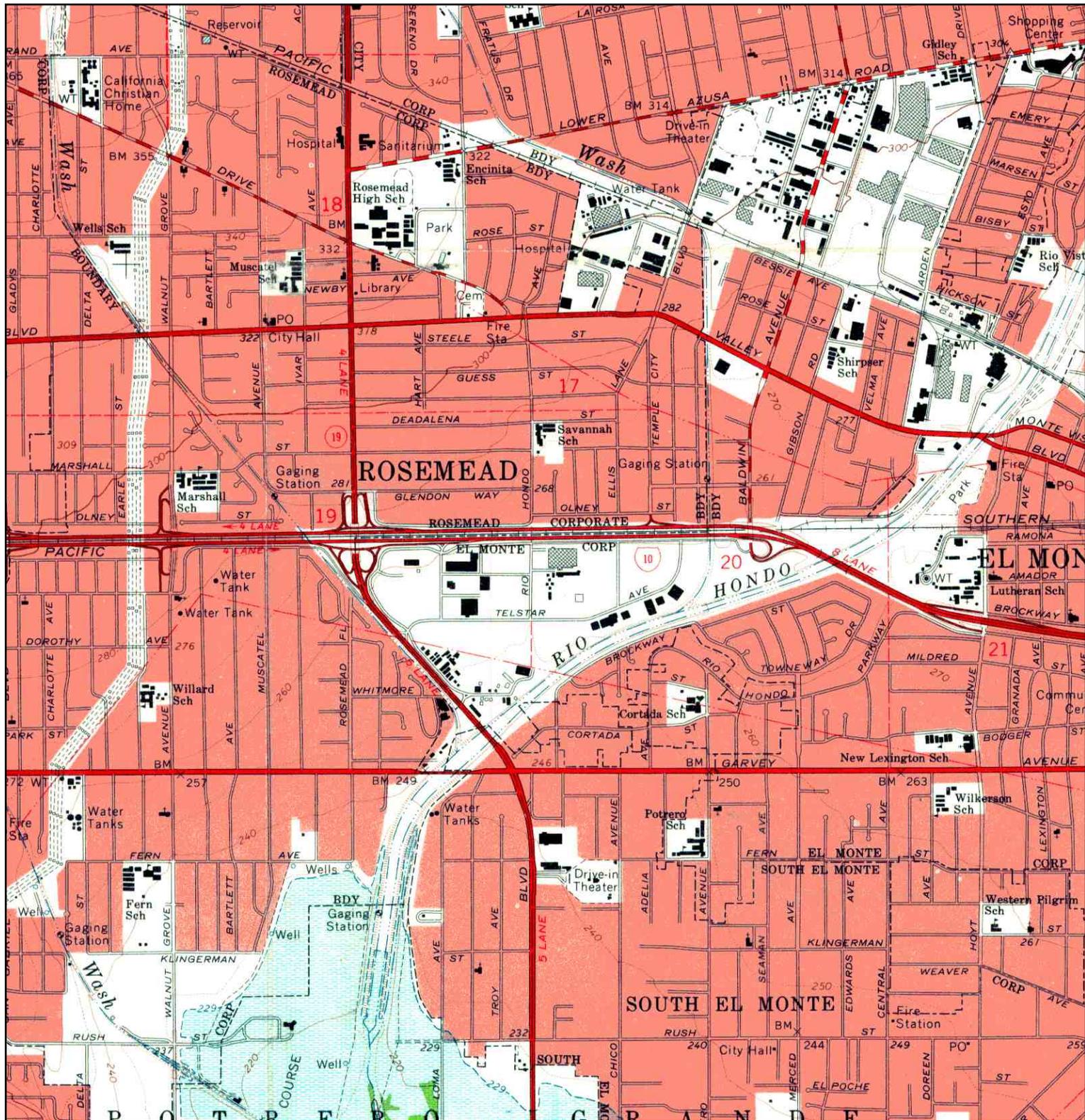
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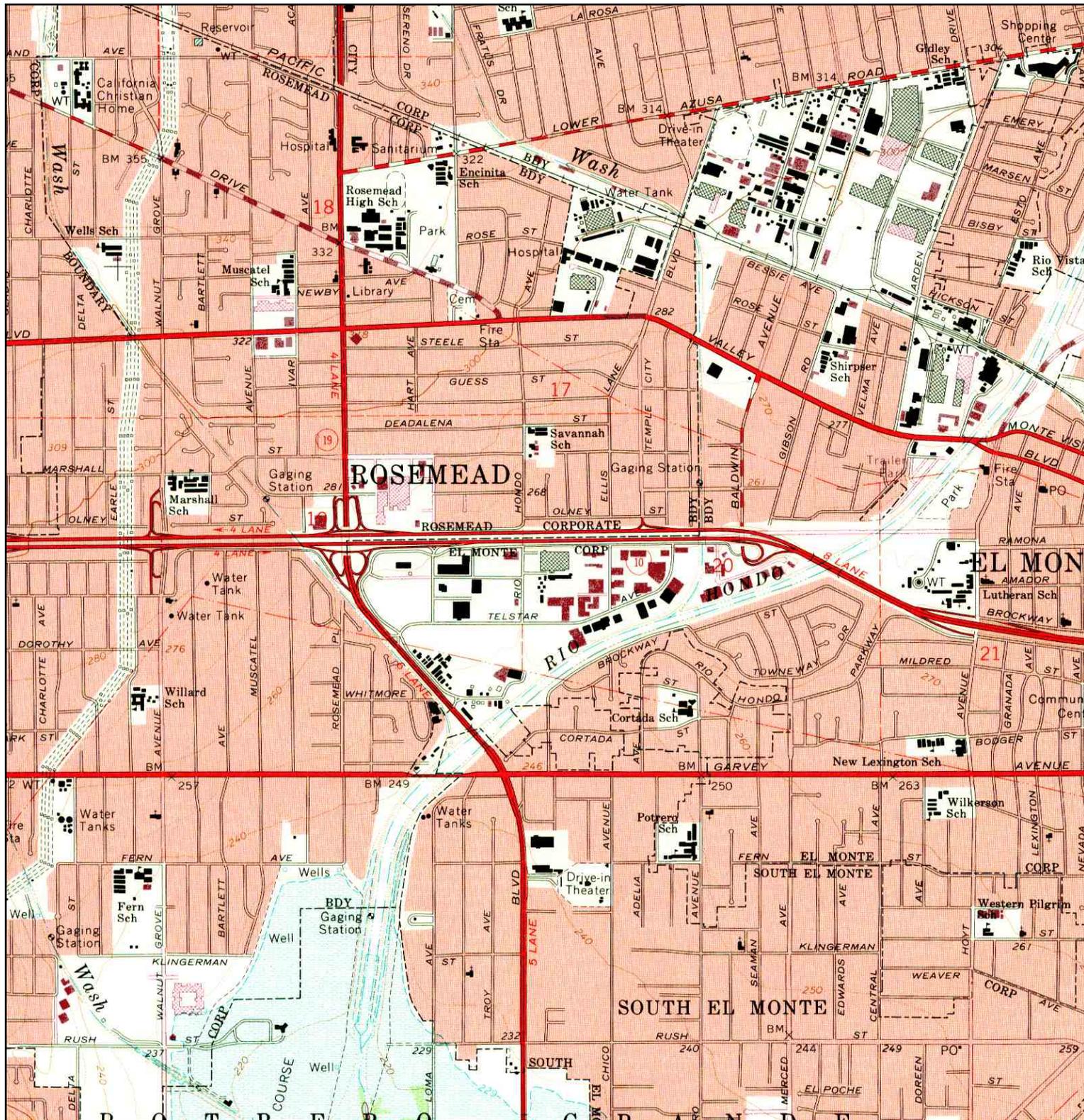
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	MAP YEAR: 1953	LAT/LONG:	El Monte, CA 91731	INQUIRY#:	2465694.4
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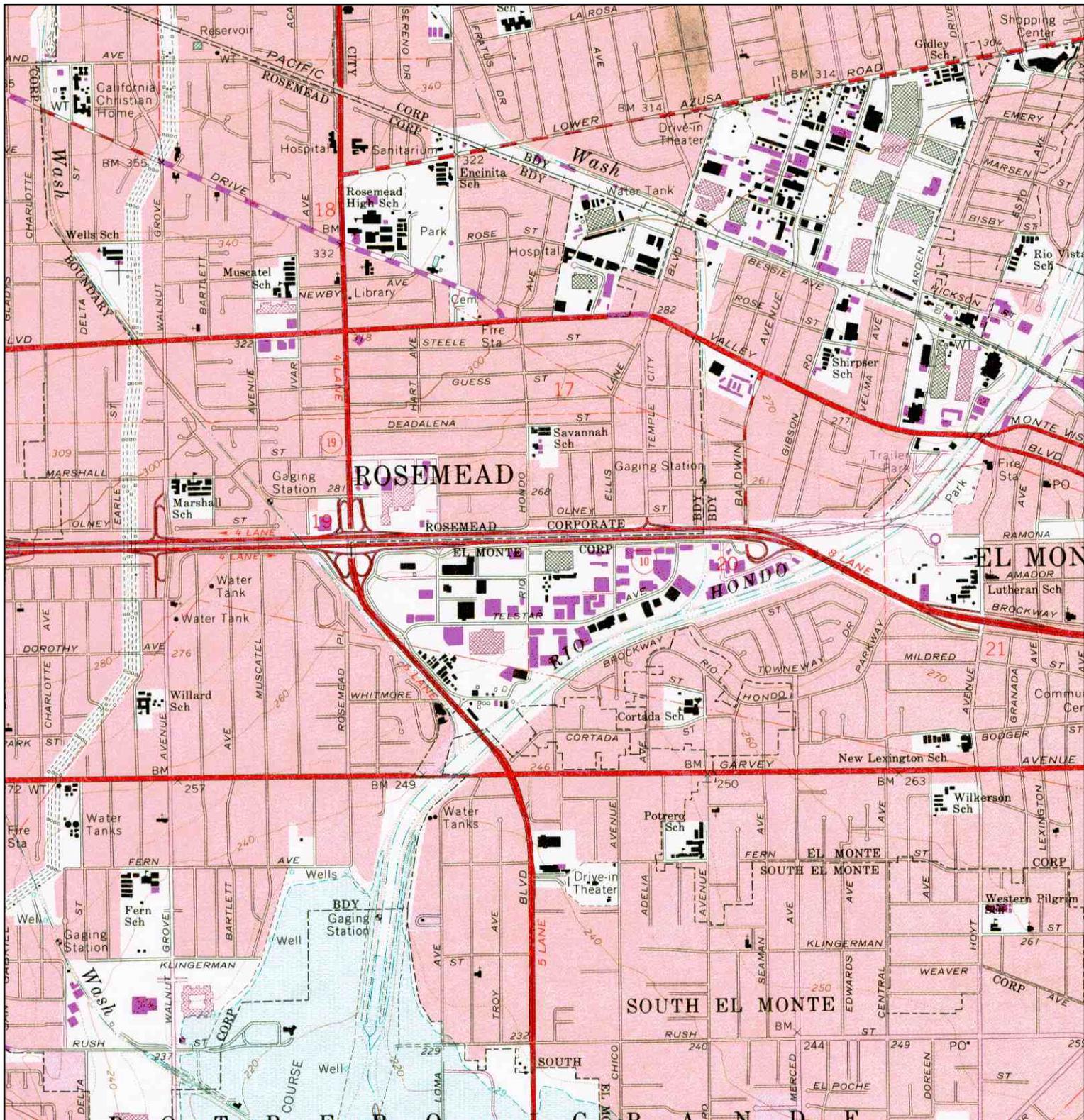
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	NAME: EL MONTE	ADDRESS: 9400 Flair Drive	CONTACT: Simon Mendum
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# Historical Topographic Map



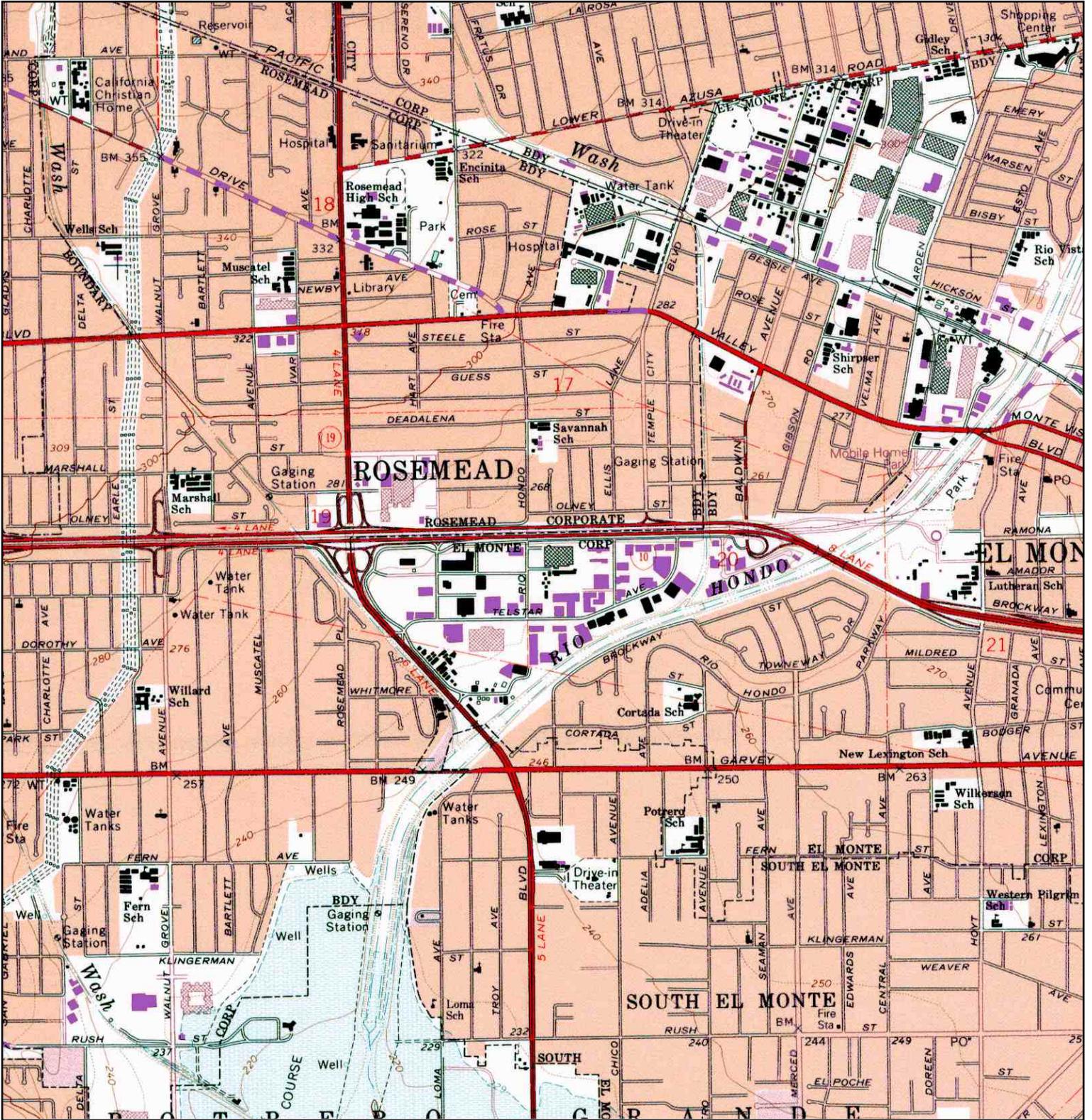
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	NAME: EL MONTE	ADDRESS: 9400 Flair Drive	CONTACT: Simon Mendum
	MAP YEAR: 1972	EL MONTE, CA 91731	INQUIRY#: 2465694.4
	PHOTOREVISED FROM: 1966	LAT/LONG: 34.0711 / 118.063	RESEARCH DATE: 04/13/2009
	SERIES: 7.5		
	SCALE: 1:24000		

# Historical Topographic Map



<p>N ↑</p>	TARGET QUAD	SITE NAME:	Sargent Fletcher, Inc.	CLIENT:	ERM - West, Inc.
	NAME: EL MONTE	ADDRESS:	9400 Flair Drive	CONTACT:	Simon Mendum
	MAP YEAR: 1981	LAT/LONG:	EI Monte, CA 91731	INQUIRY#:	2465694.4
	PHOTOREVISED FROM: 1966			RESEARCH DATE:	04/13/2009
	SERIES: 7.5				
	SCALE: 1:24000				

# Historical Topographic Map



<p>N ↑</p>	TARGET QUAD	SITE NAME: Sargent Fletcher, Inc.	CLIENT: ERM - West, Inc.
	NAME: EL MONTE	ADDRESS: 9400 Flair Drive	CONTACT: Simon Mendum
	MAP YEAR: 1994	EL MONTE, CA 91731	INQUIRY#: 2465694.4
	REVISED FROM: 1966	LAT/LONG: 34.0711 / 118.063	RESEARCH DATE: 04/13/2009
	SERIES: 7.5		
	SCALE: 1:24000		

**Sargent Fletcher, Inc.**

9400 Flair Drive  
El Monte, CA 91731

Inquiry Number: 2465694.8  
April 13, 2009

# The EDR Property Tax Map Report

## EDR Property Tax Map Report

Environmental Data Resources, Inc.'s EDR Property Tax Map Report is designed to assist environmental professionals in evaluating potential environmental conditions on a target property by understanding property boundaries and other characteristics. The report includes a search of available property tax maps, which include information on boundaries for the target property and neighboring properties, addresses, parcel identification numbers, as well as other data typically used in property location and identification.

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with any questions or comments.

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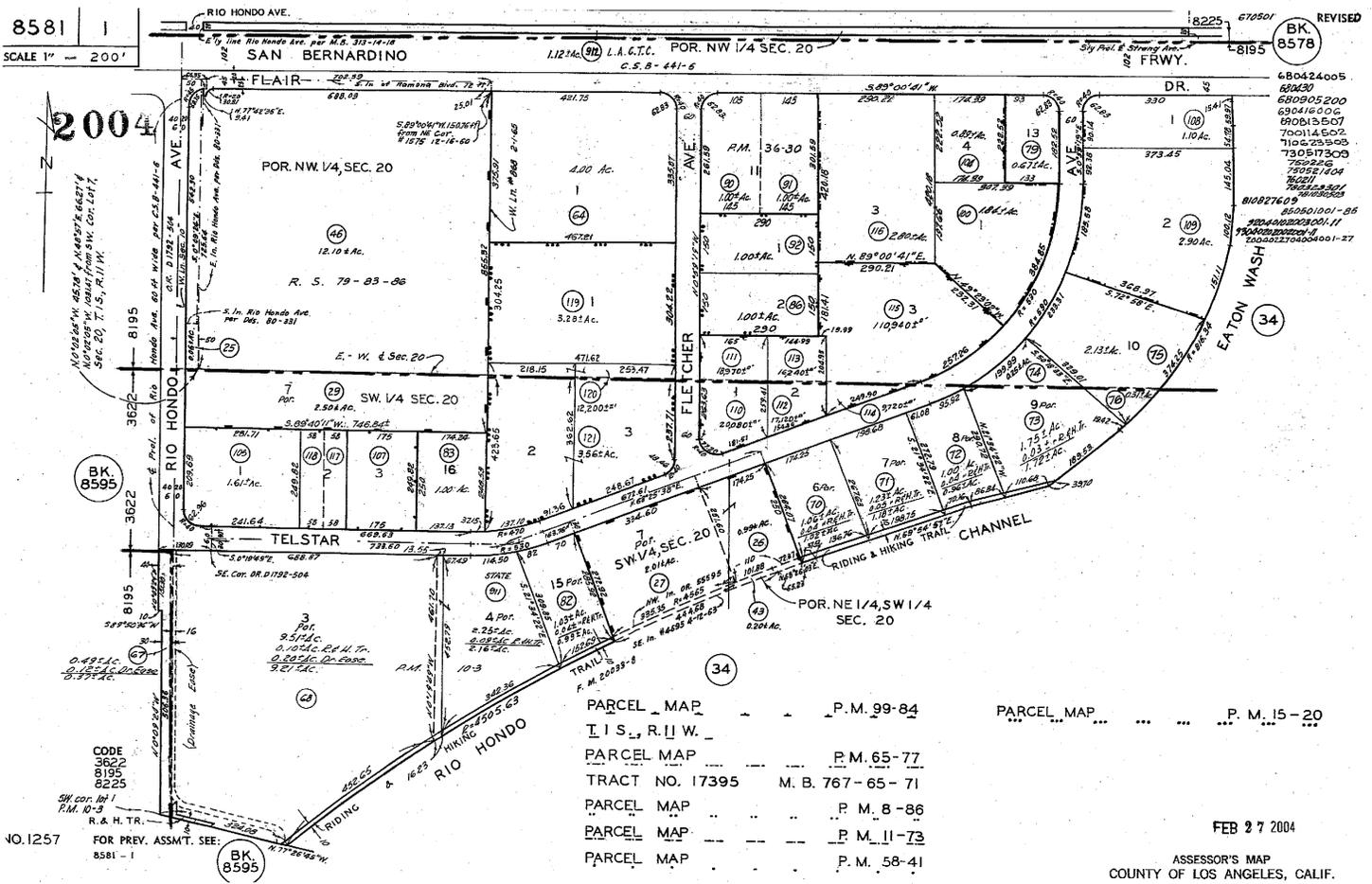
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8581

SCALE 1" = 200'

200'



NO. 1257 FOR PREV. ASSMT. SEE: 8581 - 1

- PARCEL MAP . . . . . P. M. 99-84
- TRACT NO. 17395 M. B. 767-65-71
- PARCEL MAP . . . . . P. M. 65-77
- PARCEL MAP . . . . . P. M. 8-86
- PARCEL MAP . . . . . P. M. 11-73
- PARCEL MAP . . . . . P. M. 58-41

PARCEL MAP . . . . . P. M. 15-20

FEB 27 2004

ASSESSOR'S MAP COUNTY OF LOS ANGELES, CALIF.

**Sargent Fletcher, Inc.**

9400 Flair Drive  
El Monte, CA 91731

Inquiry Number: 2465694.7  
April 13, 2009

# The EDR Environmental LienSearch™ Report

## The EDR Environmental LienSearch™ Report

The EDR Environmental LienSearch 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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# The EDR Environmental LienSearch™ Report

## TARGET PROPERTY INFORMATION

### ADDRESS

9400 Flair Drive  
Sargent Fletcher, Inc.  
El Monte, CA 91731

### RESEARCH SOURCE

#### Source 1:

LA County Recorder  
LOS ANGELES, CA

### PROPERTY INFORMATION

#### Deed 1:

Type of Deed: Deed  
Title is vested in: Acquisition Inc.  
Title received from: Sargent-Fletcher Company  
Deed Dated: 9/30/1994  
Deed Recorded: 10/14/1994  
Book: NA  
Page: na  
Volume: na  
Instrument: na  
Docket: NA  
Land Record Comments: SEE EXHIBIT  
Miscellaneous Comments: na

**Legal Description:** SEE EXHIBIT

**Legal Current Owner:** Acquisition Inc.

**Property Identifiers:** 8581-001-029, 8581-001-046

**Comments:** SEE EXHIBIT

### ENVIRONMENTAL LIEN

Environmental Lien: Found  Not Found

If found:

1st Party:

2nd Party:

Dated:

Recorded:

Book:

Page:

Docket:

## The EDR Environmental LienSearch™ Report

Volume:

Instrument:

Comments:

Miscellaneous Comments:

### **OTHER ACTIVITY AND USE LIMITATIONS (AULs)**

AULs:

Found

Not Found

If found:

1st Party:

2nd Party:

Dated:

Recorded:

Book:

Page:

Docket:

Volume:

Instrument:

Comments:

Miscellaneous Comments:

## **Deed Exhibit 1**

94 1878464

RECORDED/FILED IN OFFICIAL RECORDS  
RECORDER'S OFFICE  
LOS ANGELES COUNTY  
CALIFORNIA  
1 MIN. 1 P.M. OCT 14 1994  
PAST

RECORDING REQUESTED BY  
AND WHEN RECORDED RETURN TO:

Fried, Frank, Harris, Shriver & Jacobson  
One New York Plaza  
New York, New York 10004  
Attn: Craig Miller, Esq.

MAIL TAX STATEMENTS TO:

Sargent Fletcher Inc.  
9400 E. Flair Drive  
El Monte, California 91731

FEE \$ 66.00 F

[Documentary transfer tax is not of public record and is  
disclosed under separate cover.]

NOTIFICATION SENT-\$7  
©

8581-001-046, 029, 025-  
570, 640, 1858

GRANT DEED

A.E.N.F. CODE 94  
TRANSFER TAX  
NOT A PUBLIC RECORD

FOR VALUABLE CONSIDERATION, receipt of which is hereby  
acknowledged, Sargent-Fletcher Company, a California corporation,  
as debtor and debtor in possession ("Grantor"), hereby grants to  
FR Acquisition Inc., a Delaware corporation ("Grantee"), the ~~the~~  
parcels of real property located in City of El Monte, County of  
Los Angeles, State of California, described on Exhibit A attached  
hereto and made a part hereof (the "Property") subject to  
exceptions set forth on Exhibit B hereto.

Executed as of this 30th day of September, 1994.

GRANTOR: SARGENT-FLETCHER COMPANY, INC.  
a California corporation, debtor  
and debtor in possession

By: Gordon H. Smith  
Gordon H. Smith, President,  
Chief Executive Officer

eg00239.001d982

Mail Tax Statements to Return Address Above

9413867-68



EXHIBIT A

SEE ATTACHED LEGAL DESCRIPTION

eg\00239.001\1982

94 1878464

DESCRIPTION

1

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EXHIBIT A

PARCEL 1:

THAT PORTION OF FRACTIONAL SECTION 20, TOWNSHIP 1 SOUTH, RANGE 11 WEST, SAN BERNARDINO MERIDIAN, IN THE CITY OF EL MONTE, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF, INCLUDED WITHIN THE FOLLOWING DESCRIBED BOUNDARIES:

BEGINNING AT A POINT ON THE SOUTHERLY LINE OF RAMONA BOULEVARD, 72 FEET WIDE (DESIGNATED AS PARCEL 5 IN THE DEED TO THE STATE OF CALIFORNIA, RECORDED IN BOOK 16970 PAGE 269, OFFICIAL RECORDS OF SAID COUNTY) SAID POINT LYING NORTH 89 DEGREES 00 MINUTES 41 SECONDS EAST 50.00 FEET FROM THE INTERSECTION OF SAID SOUTHERLY LINE WITH THE SOUTHERLY PROLONGATION OF THE CENTER LINE OF RIO HONDO AVENUE, 60 FEET WIDE, AS SHOWN ON COUNTY SURVEYOR'S MAP NO. B-441, SHEET NO. 6, ON FILE IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY; THENCE SOUTH 0 DEGREES 09 MINUTES 24 SECONDS EAST ALONG A LINE DRAWN PARALLEL WITH AND LYING 50.00 FEET EASTERLY FROM SAID SOUTHERLY PROLONGATION OF SAID CENTER LINE OF RIO HONDO AVENUE, 725.64 FEET TO A POINT; THENCE NORTH 89 DEGREES 40 MINUTES 11 SECONDS EAST 867.61 FEET; THENCE NORTH 0 DEGREES 09 MINUTES 24 SECONDS WEST 735.61 FEET TO THE SOUTHERLY LINE OF SAID RAMONA BOULEVARD; THENCE SOUTH 89 DEGREES 00 MINUTES 41 SECONDS WEST 867.70 FEET ALONG SAID LINE TO THE POINT OF BEGINNING.

EXCEPT THEREFROM THAT PORTION OF SAID LAND, INCLUDED WITHIN THE LINES OF RIO HONDO AVENUE, FORMERLY SAVANNAH OLD MISSION ROAD AND FLAIR DRIVE, AS DESCRIBED IN THE DEED TO THE CITY OF EL MONTE, RECORDED DECEMBER 10, 1956 IN BOOK 53081 PAGE 110 OF SAID OFFICIAL RECORDS.

ALSO EXCEPT THEREFROM THAT PORTION OF SAID LAND, INCLUDED WITHIN TRACT NO. 17395, IN SAID CITY, COUNTY AND STATE, AS PER MAP RECORDED IN BOOK 767 PAGES 65 TO 71 INCLUSIVE OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

PARCEL 2:

THAT PORTION OF FRACTIONAL SECTION 20, TOWNSHIP 1 SOUTH, RANGE 11 WEST, SAN BERNARDINO MERIDIAN, IN THE CITY OF EL MONTE, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF, INCLUDED WITHIN THE FOLLOWING DESCRIBED BOUNDARIES:

BEGINNING AT A POINT ON THE SOUTHERLY LINE OF RAMONA BOULEVARD, 72 FEET WIDE (DESIGNATED AS PARCEL 5 IN THE DEED TO THE STATE OF CALIFORNIA, RECORDED IN BOOK 16970 PAGE 269, OFFICIAL RECORDS OF SAID COUNTY) SAID POINT LYING NORTH 89 DEGREES 00 MINUTES 41 SECONDS EAST 50.00 FEET FROM THE INTERSECTION OF SAID SOUTHERLY LINE WITH THE SOUTHERLY PROLONGATION OF THE CENTER LINE OF RIO HONDO AVENUE, 60 FEET WIDE, AS SHOWN ON COUNTY SURVEYOR'S MAP NO. B-441, SHEET NO. 6 ON FILE IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY; THENCE SOUTH 0 DEGREES 09 MINUTES 24 SECONDS EAST ALONG A LINE DRAWN PARALLEL WITH AND LYING 50.00 FEET EASTERLY FROM SAID PROLONGATION OF SAID CENTER LINE OF RIO HONDO AVENUE, 725.64 TO THE TRUE POINT OF BEGINNING; THENCE NORTH 89 DEGREES 40 MINUTES 11 SECONDS EAST 867.61 FEET TO THE WESTERLY LINE OF LOT 2 OF TRACT NO. 17395, IN SAID CITY, AS PER MAP RECORDED IN BOOK 767 PAGES 65 TO 71 INCLUSIVE OF MAPS, RECORDS OF SAID COUNTY; THENCE SOUTHERLY ALONG THE WESTERLY LINE OF SAID LOT 2, TO THE

RECORDED - 11/24/91 AA

RECORDER'S MEMO:  
POOR RECORD IS DUE TO  
QUALITY OF ORIGINAL DOCUMENT

94 1878464

DESCRIPTION

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NORTHEASTERLY CORNER OF LOT 16 OF SAID TRACT; THENCE WESTERLY ALONG THE NORTHERLY LINE OF LAST SAID LOT TO THE NORTHEASTERLY CORNER OF PARCEL 3 OF PARCEL MAP NO. 298, IN SAID CITY, AS PER MAP FILED IN BOOK 88 PAGE 41 OF PARCEL MAPS, RECORDS OF SAID COUNTY; THENCE WESTERLY ALONG THE NORTHERLY LINE OF SAID PARCEL MAP AND THE WESTERLY PROLONGATION THEREOF TO SAID SOUTHERLY PROLONGATION OF SAID CENTER LINE OF RIO HONDO AVENUE, 60.00 FOOT WIDE; THENCE NORTHERLY ALONG LAST SAID PROLONGATION, TO A LINE BEARING NORTH 89 DEGREES 40 MINUTES 11 SECONDS EAST, AND PASSES THROUGH THE TRUE POINT OF BEGINNING; THENCE ALONG LAST SAID LINE, NORTH 89 DEGREES 40 MINUTES 11 SECONDS EAST 50.00 FEET, TO THE TRUE POINT OF BEGINNING.

PARCEL 3:

THAT PORTION OF THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER OF FRACTIONAL SECTION 20, TOWNSHIP 1 SOUTH, RANGE 11 WEST, SAN BERNARDINO BASE AND MERIDIAN, IN THE CITY OF EL MONTE, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF, BOUNDED ON THE EAST BY A LINE PARALLEL WITH AND DISTANT EASTERLY 50.00 FEET FROM THE SOUTHERLY PROLONGATION OF THE CENTER LINE OF RIO HONDO AVENUE, 60 FEET WIDE, AS SHOWN ON COUNTY SURVEYOR'S MAP 3-441, SHEET 6, ON FILE IN THE OFFICE OF THE COUNTY ENGINEER OF SAID COUNTY, AND BOUNDED ON THE NORTH BY THE SOUTHERLY LINE OF RIO HONDO AVENUE (NOW VACATED) AS DESCRIBED IN DEED RECORDED IN BOOK 80 PAGE 331 OF DEEDS.

EXCEPT THAT PORTION THEREOF INCLUDED WITHIN THE LINES OF RIO HONDO AVENUE, FORMERLY SAVANNAH OIL MISSION ROAD.

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EXHIBIT B

SEE ATTACHED EXCEPTIONS

eg00239.001v1902

**94 1878464**

7

**SCHEDULE B**  
*EXHIBIT B*

At the date hereof exceptions to coverage in addition to the printed Exceptions and Exclusions in the policy form designated on the face page of this report would be as follows:

- EXCEPT* 1. PROPERTY TAXES, INCLUDING ANY ASSESSMENTS COLLECTED WITH TAXES, TO BE LEVIED FOR THE FISCAL YEAR 1994-95 WHICH ARE A LIEN NOT YET PAYABLE.
- OMIT* 2. PROPERTY TAXES FOR THE FISCAL YEAR SHOWN BELOW ARE PAID. FOR INFORMATION PURPOSES THE AMOUNTS ARE:

FISCAL YEAR:	1993-1994
1ST INSTALLMENT:	\$67,199.25
2ND INSTALLMENT:	\$37,619.40
EXEMPTION:	\$NONE
CODE AREA:	8195
ASSESSMENT NO:	8581-001-046

AFFECTS: PARCEL 1 AND OTHER LAND.
- OMIT* 3. PROPERTY TAXES FOR THE FISCAL YEAR SHOWN BELOW ARE PAID. FOR INFORMATION PURPOSES THE AMOUNTS ARE:

FISCAL YEAR:	1993-1994
1ST INSTALLMENT:	\$4,875.27
2ND INSTALLMENT:	\$4,875.27
EXEMPTION:	\$NONE
CODE AREA:	3622
ASSESSMENT NO:	8581-001-029

AFFECTS: PARCEL 2.
- OMIT* 4. PROPERTY TAXES FOR THE FISCAL YEAR SHOWN BELOW ARE PAID. FOR INFORMATION PURPOSES THE AMOUNTS ARE:

FISCAL YEAR:	1993-1994
1ST INSTALLMENT:	\$53.59
2ND INSTALLMENT:	\$53.57
EXEMPTION:	\$NONE
CODE AREA:	8195
ASSESSMENT NO:	8581-001-025

AFFECTS: PARCEL 3.
- OMIT* 5. IF REAL PROPERTY TAXES ARE TO BE ADVANCED THROUGH THIS ORDER IN A TIMELY AND EFFICIENT MANNER, THIS OFFICE SHOULD BE SENT THE ORIGINAL TAX BILLS WHICH ARE IN THE POSSESSION OF THE OWNER(S) PRIOR TO THE CLOSE OF THIS TRANSACTION AND/OR FIVE DAYS PRIOR TO THE DUE DATE. THIS GREATLY

SCHEDULE B (continued)

MINIMIZES MISPOSTINGS AND REDUCES FUTURE COMPLAINTS TO THE ESCROW AND TITLE COMPANY.

*OMIT* SUBESCROW FUNDS WILL BE USED TO PAY ANY TAXES THAT WILL BE ADVANCED THROUGH THIS TRANSACTION. IF NO SUBESCROW IS CONTEMPLATED, THEN PRIOR TO CLOSING, CHICAGO TITLE MUST BE PROVIDED WITH A CHECK FROM THE ESCROW TO PAY THE TAXES. THE CHECK MUST BE MADE PAYABLE TO "LOS ANGELES COUNTY TAX COLLECTOR". ONLY ESCROW CHECKS OR CERTIFIED FUNDS WILL BE ACCEPTED.

1. AN EASEMENT FOR THE PURPOSE SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT

*EXCEPT* GRANTED TO: SOUTHERN COUNTIES GAS COMPANY OF CALIFORNIA, A CORPORATION  
 PURPOSE: GAS PIPES AND MAINS  
 RECORDED: IN BOOK 15303 PAGE 247 OF OFFICIAL RECORDS  
 AFFECTS: A PORTION OF PARCEL 2.

7. THE INTEREST OF UNION OIL COMPANY OF CALIFORNIA, IN AND TO CERTAIN TANKS, PITS AND OTHER FACILITIES IN AND UPON SAID LAND AS DISCLOSED OF A NOTICE OF NON-RESPONSIBILITY, EXECUTED BY UNION OIL COMPANY OF CALIFORNIA, RECORDED AUGUST 9, 1945 IN BOOK 21745 PAGE 416 OF OFFICIAL RECORDS.

*EXCEPT* AFFECTS: PARCEL 3.

8. AN EASEMENT FOR THE PURPOSE SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT

*EXCEPT* GRANTED TO: COUNTY SANITATION DISTRICT NO. 2, OF LOS ANGELES COUNTY  
 PURPOSE: SEWER PIPE LINE  
 RECORDED: FEBRUARY 13, 1948 AS INSTRUMENT NO. 3108, IN BOOK 26476 PAGE 459, OFFICIAL RECORDS  
 AFFECTS: A PORTION OF PARCEL 3.

9. AN EASEMENT FOR THE PURPOSE SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT

*EXCEPT* GRANTED TO: SOUTHERN CALIFORNIA EDISON COMPANY, A CORPORATION  
 PURPOSE: POLE LINES  
 RECORDED: AUGUST 3, 1950 IN BOOK 33878 PAGE 389, OFFICIAL RECORDS  
 AFFECTS: A STRIP OF LAND 10 FEET IN WIDTH, THE CENTER LINE OF WHICH IS MORE PARTICULARLY DESCRIBED THEREIN.

10. AN EASEMENT FOR THE PURPOSE SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS

*EXCEPT*

94 1878464

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**SCHEDULE B  
(continued)**

		SET FORTH IN A DOCUMENT
EXCEPT	GRANTED TO:	SOUTHERN COUNTIES GAS COMPANY OF CALIFORNIA, A CORPORATION
	PURPOSE:	GAS PIPES AND MAINS
	RECORDED:	MARCH 12, 1954 AS INSTRUMENT NO. 3066 IN BOOK 44059 PAGE 214, OFFICIAL RECORDS
	AFFECTS:	THAT PORTION WITHIN A PARCEL OF LAND 10 FEET WIDE AS MORE PARTICULARLY DESCRIBED THEREIN.
0	11	AN EASEMENT FOR THE PURPOSE SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT
EXCEPT	GRANTED TO:	SOUTHERN CALIFORNIA EDISON COMPANY, A CORPORATION
	PURPOSE:	AN ELECTRIC LINE
	RECORDED:	JULY 26, 1954 AS INSTRUMENT NO. 2911, IN BOOK 45149 PAGE 369, OFFICIAL RECORDS
	AFFECTS:	THAT PORTION OF SAID LAND DESCRIBED THEREIN.
F	12	AN EASEMENT FOR THE PURPOSE SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT
EXCEPT	GRANTED TO:	CITY OF EL MONTE
	PURPOSE:	PUBLIC ROAD, SIDEWALKS, AND UNDERGROUND WATER AND SEWER
	RECORDED:	OCTOBER 17, 1962 AS INSTRUMENT NO. 4340 IN BOOK D-1792 PAGE 504, OFFICIAL RECORDS
	AFFECTS:	A PORTION OF SAID LAND.
	AFFECTS:	PARCEL 2.
R	13	A COVENANT AND AGREEMENT WHEREIN THE OWNERS OF SAID LAND COVENANT AND AGREE THAT SAID LAND SHALL BE HELD AS ONE PARCEL AND NO PORTION SHALL BE SOLD SEPARATELY, WHICH COVENANT IS EXPRESSED TO RUN WITH THE LAND AND BE BINDING UPON FUTURE OWNERS.
EXCEPT	DATED:	MARCH 15, 1966
	EXECUTED BY:	A. J. INDUSTRIES, INC., DBA SARGENT-FLETCHER COMPANY
	IN FAVOR OF:	CITY OF LOS ANGELES
	RECORDED:	APRIL 6, 1966 AS INSTRUMENT NO. 3853
S	AFFECTS:	THE HEREIN DESCRIBED LAND AND OTHER LAND.

94 1878464

**SCHEDULE B  
(continued)**

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7 14 AN EASEMENT FOR THE PURPOSE SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT

*EXCEPT*

GRANTED TO: COUNTY SANITATION DISTRICT NO. 2 OF LOS ANGELES COUNTY

PURPOSE: SEWER

RECORDED: JANUARY 31, 1969 AS INSTRUMENT NO. 4376

AFFECTS: THAT PORTION OF SAID FRACTIONAL SECTION 20, DESCRIBED IN DEED TO A.J. LAND COMPANY, RECORDED IN BOOK D-1973 PAGE 536 OF OFFICIAL RECORDS, IN THE OFFICE OF THE RECORDER OF THE COUNTY OF LOS ANGELES, WITHIN A STRIP OF LAND 5.00 FEET WIDE, THE EASTERLY LINE THEREOF BEING PARALLEL WITH AND DISTANT EASTERLY 5.00 FEET MEASURED AT RIGHT ANGLES FROM THE EASTERLY LINE OF RIO RONDO AVENUE, 60.00 FEET WIDE, AS SHOWN ON MAP OF TRACT NO. 17395, FILED IN BOOK 767 PAGES 65 TO 71 INCLUSIVE OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER, EXTENDING SOUTHERLY FROM THE SOUTHERLY LINE OF RIO RONDO AVENUE VACATED AND ABANDONED BY ORDINANCE NO. 1263 OF THE CITY COUNCIL OF THE CITY OF EL MONTE, DATED JULY 22, 1963, A CERTIFIED COPY OF WHICH IS RECORDED IN BOOK D-2155 PAGE 808 OF SAID OFFICIAL RECORDS, TO A LINE THAT IS PARALLEL WITH AND DISTANT NORTHERLY 318.00 FEET MEASURED AT RIGHT ANGLES FROM THE CENTER LINE OF TELSTAR AVENUE, AS SAID CENTER LINE IS SHOWN ON PARCEL MAP NO. 213, FILED IN BOOK 10 PAGE 3 OF PARCEL MAPS IN THE OFFICE OF THE COUNTY RECORDER.

AFFECTS: PARCEL 3.

V 15 AN EASEMENT FOR THE PURPOSE SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT

*EXCEPT*

GRANTED TO: SOUTHERN CALIFORNIA EDISON COMPANY, A CORPORATION

PURPOSE: OVERHEAD AND UNDERGROUND ELECTRICAL SUPPLY SYSTEMS AND COMMUNICATION SYSTEMS

RECORDED: FEBRUARY 22, 1971 AS INSTRUMENT NO. 3117

AFFECTS: A PORTION OF SAID LAND.

W 16 A DEED OF TRUST TO SECURE PERFORMANCE UNDER AN AGREEMENT REFERRED TO THEREIN, AND ANY OTHER OBLIGATIONS SECURED THEREBY

*OMIT*

DATED: SEPTEMBER 14, 1968

TRUSTOR: SARGENT-FLETCHER COMPANY, A CALIFORNIA CORPORATION

94 1878464

**SCHEDULE B  
(continued)**

TRUSTEE: TICOR TITLE INSURANCE COMPANY  
BENEFICIARY: HELLER FINANCIAL INC., A DELAWARE CORPORATION  
RECORDED: SEPTEMBER 16, 1988 AS INSTRUMENT NO. 88-1487500

X AN AGREEMENT TO MODIFY THE TERMS AND PROVISIONS OF SAID DEED OF TRUST AS  
THEREIN PROVIDED

*ONLY*

EXECUTED BY: SARGENT-FLETCHER COMPANY AND HELLER FINANCIAL, INC.  
RECORDED: APRIL 27, 1992 AS INSTRUMENT NO. 92-752586

Y A SUBSTITUTION OF TRUSTEE UNDER SAID DEED OF TRUST WHICH NAMES AS THE  
SUBSTITUTED TRUSTEE, THE FOLLOWING

TRUSTEE: HELLER FINANCIAL, INC.  
RECORDED: JUNE 10, 1992 AS INSTRUMENT NO. 92-1054895

AFFECTS: PARCEL 1.

AA 17 ANY RIGHTS, INTERESTS, OR CLAIMS WHICH MAY EXIST OR ARISE BY REASON OF  
THE FOLLOWING FACTS SHOWN ON A SURVEY PLAT ENTITLED "WINSTON & STRAWN",  
DATED MARCH 25, 1992 PREPARED BY PSOMAS AND ASSOCIATES:

*EXCEPT*

A. THE FACT THAT THREE (3) 1-STORY METAL BUILDING ENCROACHES ONTO  
EASEMENTS RECORDED JULY 26, 1954 AS INSTRUMENT NO. 2511 AND FEBRUARY 22,  
1971 AS INSTRUMENT NO. 3117.

B. THE FACT THAT A CONCRETE BLOCK WALL ENCROACHES ONTO AN EASEMENT  
RECORDED JULY 26, 1954 AS INSTRUMENT NO. 2511.

C. THE FACT THAT A METAL COVER AND CONCRETE PAD ENCROACHES ONTO AN  
EASEMENT RECORDED JULY 26, 1954 AS INSTRUMENT NO. 2511.

D. THE FACT THAT A FENCE ENCROACHES ONTO AN EASEMENT RECORDED JULY 26,  
1954 AS INSTRUMENT NO. 2511.

AFFECTS: PARCEL 1.

*AC EXCEPT*

SUCH STATE OF FACTS AS WOULD BE DISCLOSED BY AN ACCURATE SURVEY OF SAID  
LAND.

AC 19 ANY CLAIM WHICH ARISES OUT OF THE TRANSACTION INSURED BY THIS POLICY, BY  
REASON OF THE OPERATION OF FEDERAL BANKRUPTCY, STATE INSOLVENCY, OR  
SIMILAR CREDITORS' RIGHTS LAWS.

*ONLY*

*ONLY*

NOTE NO. 1: BEFORE ISSUING ITS POLICY OF TITLE INSURANCE, THIS COMPANY

94 1878464

**SCHEDULE B  
(continued)**

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WILL REQUIRE EVIDENCE, SATISFACTORY TO THE COMPANY, THAT SARGENT-FLETCHER COMPANY IS VALIDLY FORMED AND IN GOOD STANDING ON THE DATE WHEN DOCUMENTS IN THIS TRANSACTION ARE TO BE EXECUTED.

ANY INSTRUMENT IN WRITING IN THE NAME OF THE CORPORATION WILL BE SUFFICIENT FOR TITLE INSURANCE PURPOSES IF, PURSUANT TO SECTION 5212 OF THE CALIFORNIA CORPORATIONS CODE, IT IS SIGNED AND ACKNOWLEDGED BY ANY ONE OF THE FOLLOWING OFFICERS:

- THE CHAIRMAN OF THE BOARD OF DIRECTORS,
- THE PRESIDENT,
- ANY VICE PRESIDENT

DMT

AND PROVIDED IT IS ALSO SIGNED BY ANY ONE OF THE FOLLOWING ADDITIONAL OFFICERS:

- THE SECRETARY,
- ANY ASSISTANT SECRETARY,
- CHIEF FINANCIAL OFFICER,
- ASSISTANT TREASURER.

ANY DEVIATION FROM THE ABOVE WILL REQUIRE THE SUBMISSION TO THIS COMPANY OF A RESOLUTION OF THE GOVERNING BODY OF SAID CORPORATION AUTHORIZING THE TRANSACTION FOR WHICH THIS REPORT HAS BEEN REQUESTED, TOGETHER WITH A COPY OF SUCH CORPORATION'S BY-LAWS. THE RESOLUTION TO DESIGNATE AS WELL, THE OFFICERS AUTHORIZED TO EXECUTE ON THE CORPORATION'S BEHALF.

AT

NOTE NO. 2: BEFORE ISSUING ITS POLICY OF TITLE INSURANCE, THIS COMPANY WILL REQUIRE EVIDENCE, SATISFACTORY TO THE COMPANY, THAT HUNTINGTON LAND AND IMPROVEMENT COMPANY IS VALIDLY FORMED AND IN GOOD STANDING ON THE DATE WHEN DOCUMENTS IN THIS TRANSACTION ARE TO BE EXECUTED.

ANY INSTRUMENT IN WRITING IN THE NAME OF THE CORPORATION WILL BE SUFFICIENT FOR TITLE INSURANCE PURPOSES IF, PURSUANT TO SECTION 5212 OF THE CALIFORNIA CORPORATIONS CODE, IT IS SIGNED AND ACKNOWLEDGED BY ANY ONE OF THE FOLLOWING OFFICERS:

- THE CHAIRMAN OF THE BOARD OF DIRECTORS,
- THE PRESIDENT,
- ANY VICE PRESIDENT

AND PROVIDED IT IS ALSO SIGNED BY ANY ONE OF THE FOLLOWING ADDITIONAL OFFICERS:

- THE SECRETARY,
- ANY ASSISTANT SECRETARY,
- CHIEF FINANCIAL OFFICER,

94 1878464

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**SCHEDULE B  
(continued)**

° ASSISTANT TREASURER.

ANY DEVIATION FROM THE ABOVE WILL REQUIRE THE SUBMISSION TO THIS COMPANY OF A RESOLUTION OF THE GOVERNING BODY OF SAID CORPORATION AUTHORIZING THE TRANSACTION FOR WHICH THIS REPORT HAS BEEN REQUESTED, TOGETHER WITH A COPY OF SUCH CORPORATION'S BY-LAWS. THE RESOLUTION TO DESIGNATE AS WELL, THE OFFICERS AUTHORIZED TO EXECUTE ON THE CORPORATION'S BEHALF.

AG

ONLY

NOTE NO. 3: IF THIS COMPANY IS REQUESTED TO DISBURSE FUNDS IN CONNECTION WITH THIS TRANSACTION, CHAPTER 598, STATUTES OF 1989 MANDATES HOLD PERIODS FOR CHECKS DEPOSITED TO ESCROW OR SUB-ESCROW ACCOUNTS. THE MANDATORY HOLD PERIOD FOR CASHIER'S CHECKS, CERTIFIED CHECKS AND TELLER'S CHECKS IS ONE BUSINESS DAY AFTER THE DAY DEPOSITED. OTHER CHECKS REQUIRE A HOLD PERIOD OF FROM TWO TO FIVE BUSINESS DAYS AFTER THE DAY DEPOSITED. IN THE EVENT THAT THE PARTIES TO THE CONTEMPLATED TRANSACTION WISH TO RECORD PRIOR TO THE TIME THAT THE FUNDS ARE AVAILABLE FOR DISBURSEMENT (AND SUBJECT TO COMPANY APPROVAL), THE COMPANY WILL REQUIRE THE PRIOR WRITTEN CONSENT OF THE PARTIES. UPON REQUEST, A FORM ACCEPTABLE TO THE COMPANY AUTHORIZING SAID EARLY RECORDING MAY BE PROVIDED TO ESCROW FOR EXECUTION.

**WIRE TRANSFERS**

THERE IS NO MANDATED HOLD PERIOD FOR FUNDS DEPOSITED BY CONFIRMED WIRE TRANSFER. THE COMPANY MAY DISBURSE SUCH FUNDS THE SAME DAY.

IN THE EVENT YOUR TRANSACTION IS BEING ESCROWED BY A CHICAGO TITLE OFFICE, THEN CONTACT SHOULD BE MADE WITH THAT OFFICE TO OBTAIN CORRECT WIRING INSTRUCTIONS. FAILURE TO DO SO COULD RESULT IN A DELAY IN THE RECEIPT OF FUNDS AND SUBSEQUENT CLOSING OF YOUR TRANSACTION.

CHICAGO TITLE WILL DISBURSE BY WIRE (WIRE-OUT) ONLY COLLECTED FUNDS OR FUNDS RECEIVED BY CONFIRMED WIRE (WIRE-IN). THE FEE FOR EACH WIRE-OUT IS \$25.00. THE COMPANY'S WIRE-IN INSTRUCTIONS ARE:

**WIRE-IN INSTRUCTIONS FOR BANK OF AMERICA**

TO: CHICAGO TITLE  
ACCOUNT #12358-50729 ROSEHEAD SURESCROW  
BANK OF AMERICA  
1850 GATEWAY BLVD.  
CONCORD, CA 94520  
ABA #121000358

FOR THE CREDIT OF:

CHICAGO TITLE COMPANY

94 1878464

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**SCHEDULE B  
(continued)**

1717 WALNUT GROVE  
ROSEMEAD, CA. 91770

REFERENCE ORDER NO.: 009413867

AH  
OMT

NOTE NO. 4: WHEN THIS TITLE ORDER CLOSES AND IF CHICAGO TITLE IS HANDLING LOAN PROCEEDS THROUGH SUB-ESCROW, ALL TITLE CHARGES AND EXPENSES NORMALLY BILLED, WILL BE DEDUCTED FROM THOSE LOAN PROCEEDS (TITLE CHARGES AND EXPENSES WOULD INCLUDE TITLE PREMIUMS, ANY TAX OR BOND ADVANCES, DOCUMENTARY TRANSFER TAX AND RECORDING FEES, ETC.).

NOTE NO. 5: FOR YOUR INFORMATION, PLEASE NOTE THAT EFFECTIVE JULY 1, 1994 ALL DOCUMENTS TO BE RECORDED IN CALIFORNIA MUST CONFORM TO THE FOLLOWING:

(A) A PAGE FOR THE PURPOSE OF RECORDING SHALL BE ONE PRINTED SIDE OF A SINGLE PIECE OF PAPER WHICH IS 8-1/2 INCHES BY 11 INCHES. IF A PAGE CONFORMS TO THIS 8-1/2" X 11" REQUIREMENT, NO EXTRA FEE WILL BE CHARGED FOR RECORDING.

(B) A SHEET SHALL BE ONE PRINTED SIDE OF A SINGLE PIECE OF PAPER WHICH IS NOT EXACTLY 8-1/2 INCHES BY 11 INCHES BUT NOT GREATER THAN 8-1/2 INCHES BY 14 INCHES.

(C) IF A PAGE OR SHEET DOES NOT CONFORM TO THE DIMENSIONS OF 8-1/2 INCHES BY 11 INCHES THE RECORDER SHALL CHARGE \$1.00 EXTRA PER PAGE OR SHEET OF THE DOCUMENT.

THESE CHANGES ARE PURSUANT TO GOVERNMENT CODE SECTIONS 27201, 27361, AND 27361.5 WHICH WERE ENACTED IN THE 1992 LEGISLATIVE SESSION TO BE EFFECTIVE JULY 1, 1994.

PLATS  
PT/JDF

**Sargent Fletcher, Inc.**

9400 Flair Drive  
El Monte, CA 91731

Inquiry Number: 2465694.6  
April 13, 2009

## The EDR-City Directory Abstract

## TABLE OF CONTENTS

### SECTION

Executive Summary

Findings

***Thank you for your business.***

Please contact EDR at 1-800-352-0050  
with any questions or comments.

#### **Disclaimer - Copyright and Trademark Notice**

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## 2009 Enhancements to EDR City Directory Abstract

New for 2009, the EDR City Directory Abstract has been enhanced with additional information and features. These enhancements will make your city directory research process more efficient, flexible, and insightful than ever before. The enhancements will improve the options for selecting adjoining properties, and will speed up your review of the report.

**City Directory Report.** Three important enhancements have been made to the EDR City Directory Abstract:

1. *Executive Summary.* The report begins with an Executive Summary that lists the sources consulted in the preparation of the report. Where available, a parcel map is also provided within the report, showing the locations of properties researched.
2. *Page Images.* Where available, the actual page source images will be included in the Appendix, so that you can review them for information that may provide additional insight. EDR has copyright permission to include these images.
3. *Findings Listed by Location.* Another useful enhancement is that findings are now grouped by address. This will significantly reduce the time you need to review your abstracts. Findings are provided under each property address, listed in reverse chronological order and referencing the source for each entry.

**Options for Selecting Adjoining Properties.** Ensuring that the right adjoining property addresses are searched is one of the biggest challenges that environmental professionals face when conducting city directory historical research. EDR's new enhancements make it easier for you to meet this challenge. Now, when you place an order for the EDR City Directory Abstract, you have the following choices for determining which addresses should be researched.

1. *You Select Addresses and EDR Selects Addresses.* Use the "Add Another Address" feature to specify the addresses you want researched. Your selections will be supplemented by addresses selected by EDR researchers using our established research methods. Where available, a digital map will be shown, indicating property lines overlaid on a color aerial photo and their corresponding addresses. Simply use the address list below the map to check off which properties shown on the map you want to include. You may also select other addresses using the "Add Another Address" feature at the bottom of the list.
2. *EDR Selects Addresses.* Choose this method if you want EDR's researchers to select the addresses to be researched for you, using our established research methods.
3. *You Select Addresses.* Use this method for research based solely on the addresses you select or enter into the system.
4. *Hold City Directory Research Option.* If you choose to select your own adjoining addresses, you may pause production of your EDR City Directory Abstract report until you have had a chance to look at your other EDR reports and sources. Sources for property addresses include: your Certified Sanborn Map Report may show you the location of property addresses; the new EDR Property Tax Map Report may show the location of property addresses; and your field research can supplement these sources with additional address information. To use this capability, simply click "Hold City Directory research" box under "Other Options" at the bottom of the page. Once you have determined what addresses you want researched, go to your EDR Order Status page, select the EDR City Directory Abstract, and enter the addresses and submit for production.

Questions? Contact your EDR representative at 800-352-0050. For more information about all of EDR's 2009 report and service enhancements, visit [www.edrnet.com/2009enhancements](http://www.edrnet.com/2009enhancements)

## 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 2006. 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>
2006	Haines Company	X	X	X	-
2004	Haines Company	-	-	-	-
2003	Haines & Company	-	X	X	-
2001	HAINES & COMPANY INC.	-	-	-	-
2000	Haines	-	-	-	-
1999	Haines Company	X	X	X	-
1996	Pacific Bell	-	-	-	-
1995	Pacific Bell	X	X	X	-
1992	PACIFIC BELL WHITE PAGES	-	-	-	-
1991	Pacific Bell	-	X	X	-
1990	Pacific Bell	X	X	X	-
1986	Pacific Bell	X	X	X	-
1985	Pacific Bell	X	X	X	-
1981	Pacific Telephone	X	X	X	-
1980	Pacific Bell Telephone	X	X	X	-
	Pacific Telephone	X	X	X	-
1976	Pacific Telephone	X	X	X	-
1975	Pacific Telephone	X	X	X	-
1972	R. L. Polk & Co.	-	-	-	-
1971	Pacific Telephone	-	X	X	-
1970	Pacific Telephone	-	X	X	-
1969	Pacific Telephone	-	-	-	-
1967	Pacific Telephone	X	X	X	-
1966	Pacific Telephone	X	X	X	-
1965	GTE	-	X	X	-
1964	Pacific Telephone	-	-	-	-

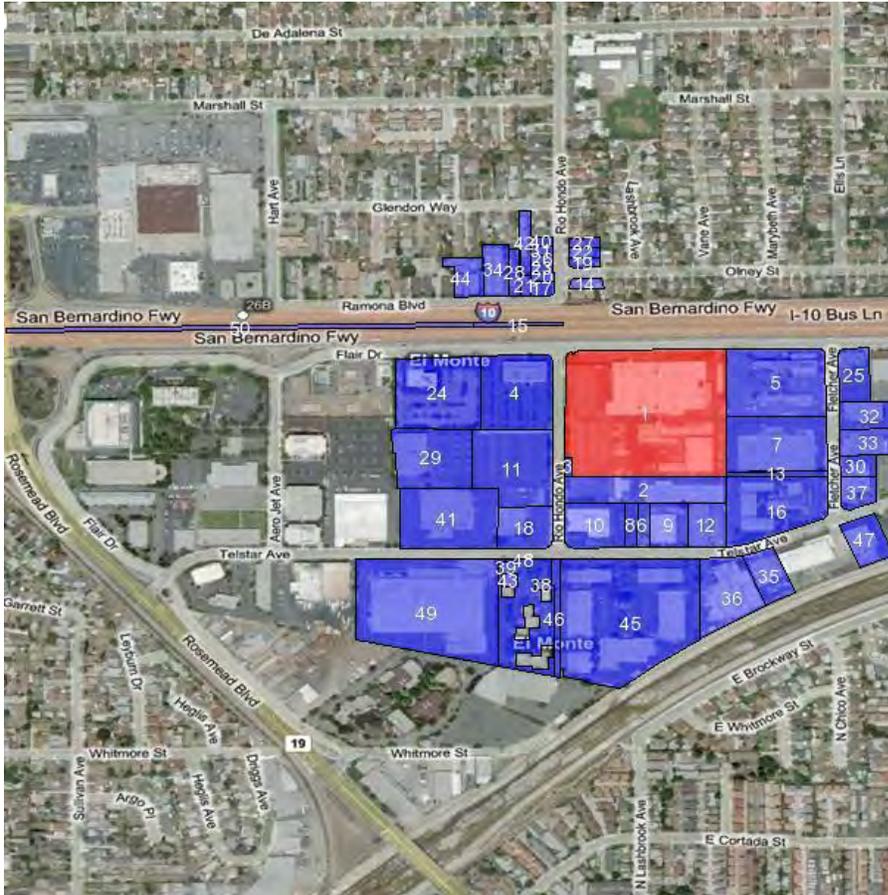
## EXECUTIVE SUMMARY

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
1963	Pacific Telephone	-	-	-	-
1962	R. L. Polk & Co.	X	-	X	-
1961	R. L. Polk & Co.	-	-	-	-
1960	General Telephone Company Publishers	-	X	X	-
	Pacific Telephone	-	X	X	-
1958	R. L. Polk & Co.	-	-	-	-
1957	Pacific Telephone	-	X	X	-
1956	General Telephone Company Publishers	-	X	X	-
1955	R. L. Polk & Co.	-	-	-	-
1954	R. L. Polk & Co.	-	-	-	-
1952	Los Angeles Directory Co.	-	-	-	-
1951	R. L. Polk & Co.	-	-	-	-
1950	Pacific Telephone	-	X	X	-
1949	Los Angeles Directory Co.	-	-	-	-
1948	Los Angeles Directory Co.	-	-	-	-
1947	Los Angeles Directory Co.	-	-	-	-
1946	Los Angeles Directory Co.	-	-	-	-
1945	R. L. Polk & Co.	-	-	-	-
1944	R. L. Polk & Co.	-	-	-	-
1942	R. L. Polk & Co.	-	-	-	-
1940	Los Angeles Directory Co.	-	-	-	-
1939	Los Angeles Directory Co.	-	-	-	-
1938	R. L. Polk & Co.	-	-	-	-
1937	Beverly Hills Chamber of Commerce	-	-	-	-
1936	Los Angeles Directory Co.	-	X	X	-
1935	Los Angeles Directory Co.	-	-	-	-
1934	Los Angeles Directory Co.	-	-	-	-
1933	Los Angeles Directory Co.	-	X	X	-
1932	R. L. Polk & Co.	-	-	-	-
1931	Los Angeles Directory Co.	-	-	-	-
1930	Los Angeles Directory Co.	-	-	-	-
1929	Los Angeles Directory Co.	-	-	-	-
1928	Los Angeles Directory Co.	-	-	-	-
1927	Los Angeles Directory Co.	-	-	-	-
1926	Los Angeles Directory Co.	-	-	-	-
1925	Los Angeles Directory Co.	-	-	-	-
1924	Los Angeles Directory Co.	-	-	-	-
1923	Los Angeles Directory Co.	-	-	-	-
1921	Los Angeles Directory Co.	-	-	-	-
1920	Los Angeles Directory Co.	-	-	-	-

## EXECUTIVE SUMMARY

### MAP INFORMATION

The Overview Map provides information on nearby property parcel boundaries. Properties on this map that were selected for research are listed below the map.



### SELECTED ADDRESSES

The following addresses were selected by the client. Detailed findings are contained in the findings section. An "X" indicates where information was identified.

<b><u>Address</u></b>	<b><u>Type</u></b>	<b><u>Findings</u></b>
9400 Flair Drive	Map ID: 1	
9443 TELSTAR AVE	Map ID: 10	
3375 RIO HONDO AVE	Map ID: 11	
9521 TELSTAR AVE	Map ID: 12	
3415 FLETCHER AVE	Map ID: 13	
9537 TELSTAR AVE	Map ID: 16	
9351 TELSTAR AVE	Map ID: 18	

## EXECUTIVE SUMMARY

<b><u>Address</u></b>	<b><u>Type</u></b>	<b><u>Findings</u></b>
9400 FLAIR DR	Map ID: 2	
9350 FLAIR DR	Map ID: 4	
9550 FLAIR DR	Map ID: 5	
3445 FLETCHER AVE	Map ID: 7	
9451 TELSTAR AVE STE	Map ID: 9	

## FINDINGS

### TARGET PROPERTY INFORMATION

#### ADDRESS

9400 Flair Drive  
El Monte, CA 91731

MapID: 1

#### FINDINGS DETAIL

Target Property research detail.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	FLETCHERINC	Haines Company
	FLETCHERINC SARGENT	Haines Company
	SARGENT	Haines Company
1999	SARGENT FLETCHER CO	Haines Company
1995	Sargent Fletcher Company	Pacific Bell
1990	FLETCHER AIRPORT EL MONTE	Pacific Bell
	FLETCHER AVIATION CORP EL MONTE	Pacific Bell
1986	FLETCHER AIRPORT EL MONTE	Pacific Bell
	FLETCHER AVIATION CORP EL MONTE	Pacific Bell
	SARGENT FLETCHER COMPANY EL MONTE	Pacific Bell
1985	MENDELL-KILNS INC	Pacific Bell
1981	FLETCHER AIRPORT EL MONTE	Pacific Telephone
	FLETCHER AVIATION CORP EL MONTE	Pacific Telephone
	SARGENT FLETCHER COMPANY EL MONTE	Pacific Telephone
1980	MENDELL-KILNS INC FLAIR DR EL MONTE	Pacific Telephone
	SARGENT-FLETCHER COMPANY EL MONTE OFC FLAIR DR EL MONTE	Pacific Telephone
1976	Fletcher Airport	Pacific Telephone
	Fletcher Aviation Corp	Pacific Telephone
1975	MENDELL KILNS L W	Pacific Telephone
	SARGENT FLETCHER COMPANY EL MONTE OFC	Pacific Telephone
1967	El Monte Ofc	Pacific Telephone
	Fletcher Airport	Pacific Telephone
	Fletcher Aviation Corp	Pacific Telephone
	Sargent Fletcher Company	Pacific Telephone
1966	FLETCHER AIRPORT	Pacific Telephone
	FLETCHER AVIATION CORP	Pacific Telephone

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1966	SARGENT-FLETCHER COMPANY EL MONTE OFC	Pacific Telephone
1962	Fletcher Aviation Company	Pacific Telephone

## FINDINGS

### ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

### FLAIR DR

#### 9300 FLAIR DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	BUILDING ALLOY METALS CO	Haines Company
	INC ALLOY METALS CO	Haines Company
	INC AMER SUNRISE	Haines Company
	INSURANCE AMER SUNRISE	Haines Company
	INSURANCE AMERWEST	Haines Company
	FUNDING BANKERS WEST	Haines Company
	FUNDING ROSEMD DIVERSFD TITLE	Haines Company
	ESCROW FCC GRP	Haines Company
	INTERNATL USA INC INFINITY HOME	Haines Company
	CARE PROVIDER LAN XIN	Haines Company
	MAI REALTY GROUP	Haines Company
	MOREASSETS	Haines Company
	INCORPORATED MULT 14 NVESTMENT	Haines Company
	ASSOCIATES MY REALTY GROUP	Haines Company
	NEVEDA SECURITY	Haines Company
	INNOVATION LTD RICHFIELD	Haines Company
	LOGISTICS INC SHOWHOTELINC	Haines Company
	SHOWHOTELINC	Haines Company
	SOURCE ONE	Haines Company
	LENDING UNIVRSL POWER	Haines Company
	INC Z A MANAGEMENT	Haines Company
	JONATHAN LIANG MAI REALTY	Haines Company
	INTERNATIONAL INC LAW OFFICES OF	Haines Company
1999	BUILDING BLUESTONE SECURITES INC	Haines Company
	SU & LI	Haines Company
	CA ST REHAB BRANCH OFFICE	Haines Company
	CARNIVAL INTERNATIONAL CO	Haines Company
	CHEN LU ENTERPRISES INC	Haines Company
	CNA INTERNATIONAL INC	Haines Company
	D W TRAVEL & TOURS CO	Haines Company
	EVERLUCK TRADING INC	Haines Company

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	F C C GROUP INTERNATIONAL USA	Haines Company
	GOLDEN RAY INTERNATL TRADE INC	Haines Company
	IMAGECOMM	Haines Company
	JOINT COUNCIL OF TEAMSTERS	Haines Company
	LIVE GROUP INC	Haines Company
	MA TSENG MA & ASCTS	Haines Company
	MULTI INVSTMT ASCTS	Haines Company
	MULTIRICH US INC	Haines Company
	NEW GOLDEN MOUNTAIN USA INC	Haines Company
	P C A W INC	Haines Company
	SO CALIF TEAMSTER RETIREES ASN	Haines Company
	TONG HUA GROUP US A INC	Haines Company
	TONG HUA GROUP USA INC	Haines Company
	U CAT INC	Haines Company
	UNIQUE HOSPITALITY MNG GRP INC	Haines Company
	XIANG FENG INTERNATL TRADNG CO	Haines Company
	YONIK TRAVEL AGENCY	Haines Company
1995	Itndu Star International Corp	Pacific Bell
	Xiang Yun Center	Pacific Bell
	Jeffries Corp	Pacific Bell
	Jeffries Dan	Pacific Bell
	Jeffries Dan F & Kathleen C	Pacific Bell
	Jeffries E M	Pacific Bell
	Multi Investment Associates	Pacific Bell
	Shangxlang Minmetats Inc	Pacific Bell
	Sino American International Business Education Center	Pacific Bell
Eastern Eagle international	Pacific Bell	
1990	JENSEN JAS A LAW FIRM INC EL MONTE	Pacific Bell
	METROPOLITAN LIFE INSURANCE COMPANY	Pacific Bell
1986	M & W KELLOGG CO THE EL MONTE	Pacific Bell
	KELLOGG THE M W COMPANY EL MONTE	Pacific Bell
1985	KELLOGG WIMPEY INC	Pacific Bell
	KELLOGG THE M W COMPANY	Pacific Bell
	M W KELLOGG COMPANY THE	Pacific Bell
	WANG LABS INC	Pacific Bell
	JACKS DELI	Pacific Bell
	MULTI-INVESTMENT ASSOCIATES	Pacific Bell

## FINDINGS

### 9330 FLAIR DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	INSTITUTE UNITD EDUCATION	Haines Company
	UNITD EDUCATION	Haines Company
	INSTITUTE	Haines Company

### 9350 FLAIR DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	AMER CAPITAL	Haines Company
	MANAGEMENT TJ FINANCIAL INC	Haines Company
	AMER CAPITAL	Haines Company
	MANAGEMENT TJ FINANCIAL INC	Haines Company
1999	X RIO HONDO AV	Haines Company
	BRICKLAYERS & ALLIED CRAFTSMAN	Haines Company
	METLIFE INSURANCE CO	Haines Company
	T J FINANCIAL INC	Haines Company
	X RIO HONDO AV	Haines Company
	BRICKLAYERS & ALLIED CRAFTSMAN	Haines Company
	METLIFE INSURANCE CO	Haines Company
	T J FINANCIAL INC	Haines Company
1995	GE Fanuc Automation Sales	Pacific Bell
	GE Industrial & Power Systems Sales	Pacific Bell
	Industrial Sales	Pacific Bell
	Navy& Marine	Pacific Bell
	Utility Sales	Pacific Bell
	GE Installation & Service Engineering Department	Pacific Bell
	GE Power Generation Services	Pacific Bell
	Qualified Contractors Inc	Pacific Bell
	Liberty West	Pacific Bell
	Staffing & Employment Southern California	Pacific Bell
	Trust Services Personal	Pacific Bell
	Bank Of America Financial Management & Trust Services	Pacific Bell
	Investments & Trust Sevices	Pacific Bell
	Probate Administration	Pacific Bell
	Auction	Pacific Bell
	El Monte	Pacific Bell
	Auction	Pacific Bell
	El Monte	Pacific Bell

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1995	GE Fanuc Automation Sales	Pacific Bell
	GE Industrial & Power Systems Sales	Pacific Bell
	Industrial Sales	Pacific Bell
	Navy& Marine	Pacific Bell
	Utility Sales	Pacific Bell
	GE Installation & Service Engineering Department	Pacific Bell
	GE Power Generation Services	Pacific Bell
	Qualified Contractors Inc	Pacific Bell
	Liberty West	Pacific Bell
	Staffing & Employment Southern California	Pacific Bell
	Trust Services Personal	Pacific Bell
	Bank Of America Financial Management & Trust Services	Pacific Bell
	Investments & Trust Sevices	Pacific Bell
Probate Administration	Pacific Bell	
1991	GE BUINESS INFORMATION CENTER INDUSTRIAL & TECHNICAL PRODUCTS INFORMATION AL	Pacific Bell
	GE BUINESS INFORMATION CENTER INDUSTRIAL & TECHNICAL PRODUCTS INFORMATION AL	Pacific Bell
	GEFanoc Automation Sales	Pacific Bell
	GEindustry& Utility Sales	Pacific Bell
	Electric Utility Sales	Pacific Bell
	Industrial Sales	Pacific Bell
	Marine & Defense Facilities Sales Operation	Pacific Bell
	GEPower Delivery & Control	Pacific Bell
	GE BUINESS INFORMATION CENTER INDUSTRIAL & TECHNICAL PRODUCTS INFORMATION AL	Pacific Bell
	GE BUINESS INFORMATION CENTER INDUSTRIAL & TECHNICAL PRODUCTS INFORMATION AL	Pacific Bell
	GE BUINESS INFORMATION CENTER INDUSTRIAL & TECHNICAL PRODUCTS INFORMATION AL	Pacific Bell
	GE BUINESS INFORMATION CENTER INDUSTRIAL & TECHNICAL PRODUCTS INFORMATION AL	Pacific Bell
	GE BUINESS INFORMATION CENTER INDUSTRIAL & TECHNICAL PRODUCTS INFORMATION AL	Pacific Bell



## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1986	GENERAL ELECTRIC COMPANY SALES & SERVICES	Pacific Bell	
	GENERAL ELECTRIC COMPANY SALES & SERVICES	Pacific Bell	
	XEROX CORPORATION COPIERS & DUPLICATORS SALES	Pacific Bell	
	TICOR TITLE INSURANCE RESIDENTIAL OFFICES-	Pacific Bell	
	GENERAL ELECTRIC COMPANY SALES & SERVICES	Pacific Bell	
	GENERAL ELECTRIC COMPANY SALES & SERVICES	Pacific Bell	
	GENERAL ELECTRIC COMPANY SALES & SERVICES	Pacific Bell	
	GENERAL ELECTRIC COMPANY SALES & SERVICES	Pacific Bell	
	XEROX CORPORATION COPIERS & DUPLICATORS SALES	Pacific Bell	
	TICOR TITLE INSURANCE RESIDENTIAL OFFICES-	Pacific Bell	
	GENERAL ELECTRIC COMPANY SALES & SERVICES	Pacific Bell	
	GENERAL ELECTRIC COMPANY SALES & SERVICES	Pacific Bell	
	1985	GENERAL ELECTRIC COMPANY SALES & SERVICES APPARATUS & ENGINEERING SERVICES	Pacific Bell
		GENERAL ELECTRIC COMPANY SALES & SERVICES APPARATUS & ENGINEERING SERVICES	Pacific Bell
GENERAL ELECTRIC COMPANY SALES & SERVICES INDUSTRIAL SALES DIVISION EL MO		Pacific Bell	
GENERAL ELECTRIC COMPANY SALES & SERVICES		Pacific Bell	
GENERAL ELECTRIC COMPANY SALES & SERVICES INDUSTRIAL SALES DIVISION		Pacific Bell	
GENERAL ELECTRIC COMPANY SALES & SERVICES		Pacific Bell	
GENERAL ELECTRIC COMPANY SALES & SERVICES		Pacific Bell	
GENERAL ELECTRIC COMPANY SALES & SERVICES CONSTRUCTION EQUIPMENT SALES DIVI		Pacific Bell	
GENERAL ELECTRIC COMPANY SALES & SERVICES MECHANICAL DRIVE TURBINE COMPRESS		Pacific Bell	
GENERAL ELECTRIC COMPANY SALES & SERVICES WIRE & CABLE DEPARTMENT		Pacific Bell	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1985	TICOR TITLE INSURANCE	Pacific Bell
	GENERAL ELECTRIC COMPANY SALES & SERVICES PROGRAMMABLE CONTROL SALES	Pacific Bell
	ALCOHOLIC BEVERAGE CONTROL DEPT CALIFORNIA STATE OF	Pacific Bell
	XEROX CORPORATION COPIERS & DUPLICATORS	Pacific Bell
	GENERAL ELECTRIC COMPANY SALES & SERVICES	Pacific Bell
	GENERAL ELECTRIC COMPANY SALES & SERVICES INDUSTRIAL SALES DIVISION	Pacific Bell
	GENERAL ELECTRIC COMPANY SALES & SERVICES	Pacific Bell
	GENERAL ELECTRIC COMPANY SALES & SERVICES	Pacific Bell
	GENERAL ELECTRIC COMPANY SALES & SERVICES CONSTRUCTION EQUIPMENT SALES DIVI	Pacific Bell
	GENERAL ELECTRIC COMPANY SALES & SERVICES MECHANICAL DRIVE TURBINE COMPRESS	Pacific Bell
	GENERAL ELECTRIC COMPANY SALES & SERVICES WIRE & CABLE DEPARTMENT	Pacific Bell
	TICOR TITLE INSURANCE	Pacific Bell
	GENERAL ELECTRIC COMPANY SALES & SERVICES PROGRAMMABLE CONTROL SALES	Pacific Bell
	ALCOHOLIC BEVERAGE CONTROL DEPT CALIFORNIA STATE OF	Pacific Bell
	XEROX CORPORATION COPIERS & DUPLICATORS	Pacific Bell
	GENERAL ELECTRIC COMPANY SALES & SERVICES APPARATUS & ENGINEERING SERVICES	Pacific Bell
	GENERAL ELECTRIC COMPANY SALES & SERVICES APPARATUS & ENGINEERING SERVICES	Pacific Bell
	GENERAL ELECTRIC COMPANY SALES & SERVICES INDUSTRIAL SALES DIVISION EL MO	Pacific Bell
1981	GENERAL ELECTRIC COMPANY SERVICE	Pacific Telephone
	GENERAL ELECTRIC COMPANY SERVICE	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	BANK OF AMERICA NT & SA ADMINISTRATIVE OFFICES	Pacific Telephone

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1981	XEROX CORPORATION COPIERS & DUPLICATORS BRANCH SALES & SERVICE OFFICES	Pacific Telephone
	TITLE INSURANCE AND TRUST TITLE DEPARTMENTS	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	TITLE INSURANCE AND TRUST TITLE DEPARTMENTS	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	BANK OF AMERICA NT & SA ADMINISTRATIVE OFFICES	Pacific Telephone
	XEROX CORPORATION COPIERS & DUPLICATORS BRANCH SALES & SERVICE OFFICES	Pacific Telephone
1980	GENERAL ELECTRIC COMPANY SERVICE MAJOR APPLIANCE FACTORY SERVICE E 4TH ST	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES APPARATUS DISTRIBUTION SALES DIVISION	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SERVICE INSTALLATION & SERVICE ENGINEERING EL MO	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES INDUSTRIAL SALES DIVISION EL MONTE	Pacific Telephone
	DRUG ABUSE DIVISION S CARMENCITA DR SANTE FE SPRINGS	Pacific Telephone
	BANK OF AMERICA NT & SA ADMINISTRATIVE OFFICES	Pacific Telephone
	TITLE INSURANCE AND TRUST	Pacific Telephone
	GENERAL ELECTRIC COMPANY SERVICE SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SERVICE SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SERVICE SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SERVICE SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SERVICE SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SERVICE SALES	Pacific Telephone



## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	GENERAL ELECTRIC COMPANY SERVICE SALES	Pacific Telephone
	GENERAL ELECTRIC CREDIT CORP FLAIR DR EL MONTE	Pacific Telephone
	ALCOHOLIC BEVERAGE CONTROL DEPT CALIFORNIA STATE OF FLAIR DR EL MONTE	Pacific Telephone
	XEROX CORPORATION COPIERS & DUPLICATORS	Pacific Telephone
	GENERAL ELECTRIC COMPANY SERVICE MAJOR APPLIANCE FACTORY SERVICE E 4TH ST	Pacific Telephone
1976	GENERAL ELECTRIC COMPANY SALES Apparatus Distribution Sales Div	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES Data Communications Product Sept District Sales Office	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES Industrial Sales & Engineering	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES Installation & Service Engineering	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES Marine & Defense Facilities Sales	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES Power Generation Sales Div	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES Power Transmission & Distribution Sales Div	Pacific Telephone
	ATLANTIC RICHFIELD COMPANY El Monte FDHC Ofc	Pacific Telephone Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES Apparatus Distribution Sales Div	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES Data Communications Product Sept District Sales Office	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES Industrial Sales & Engineering	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES Installation & Service Engineering	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES Marine & Defense Facilities Sales	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES Power Generation Sales Div	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES Power Transmission & Distribution Sales Div	Pacific Telephone
	ATLANTIC RICHFIELD COMPANY El Monte FDHC Ofc	Pacific Telephone Pacific Telephone
	XEROX CORPORATION	Pacific Telephone

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1976	Branch Sales & Service Offices San Gabriel Valley Br	Pacific Telephone
	TITLE INSURANCE AND TRUST	Pacific Telephone
	Eastern District El Monte Office	Pacific Telephone
	Genlgraphics Center	Pacific Telephone
	Installation & Service Engineering	Pacific Telephone
	XEROX CORPORATION	Pacific Telephone
	Branch Sales & Service Offices San Gabriel Valley Br	Pacific Telephone
	TITLE INSURANCE AND TRUST	Pacific Telephone
	Eastern District El Monte Office	Pacific Telephone
	Genlgraphics Center	Pacific Telephone
	Installation & Service Engineering	Pacific Telephone
1975	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SERVICE	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	XEROX CORPORATION COPIERS & DUPLICATORS SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SERVICE	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	XEROX CORPORATION COPIERS & DUPLICATORS SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SERVICE INSTALLATION & SERVICE ENGINEERING-ELECTRI	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1975	GENERAL ELECTRIC COMPANY SERVICE INSTALLATION & SERVICE ENGINEERING- ELECTRI	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone
	GENERAL ELECTRIC COMPANY SALES	Pacific Telephone

### 9500 FLAIR DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1986	OLYMPIA U S A INC EL MONTE	Pacific Bell

### 9550 FLAIR DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	ART PRCLN FR LA CHINESEYELLOW	Haines Company
	PAGES CHINSEYELLOW	Haines Company
	PAGES LP CHOIXINC	Haines Company
	CONTECH	Haines Company
	DEVELOPMENT INC CURVES	Haines Company
	DOMAIN TECH&	Haines Company
	ECNMY DVLP INC DRA DRA	Haines Company
	ENTERPRISE DTE DEVELOPMENT	Haines Company
	INC DTE INC	Haines Company
	EAST WEST BANK	Haines Company
	ENHANCED	Haines Company
	Communications ENHANCED	Haines Company
	COMMUNICATIONS	Haines Company
	Network EXCELLENCE FNC	Haines Company
	PRLGLSERV FANGS FASHION	Haines Company
	INC FOREVERSTAR	Haines Company
	GS TRAVEL	Haines Company
	INCMMF	Haines Company
	KHUONG	Haines Company
	KSCI TV STATION	Haines Company
	LAW OFFICES OF	Haines Company
	JAMES R HEYING LI Zheng	Haines Company
	LIBERTY MUTUAL	Haines Company
	INS UOU MAY FATTY	Haines Company
	LIU PETER CPA	Haines Company
	MMFINC	Haines Company

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	r MAGNUM CHAIM AT	Haines Company
	LAW ATTY MAGNUM CHAIM	Haines Company
	ATTY MEMAX TRADING	Haines Company
	INC POOHKAPYE	Haines Company
	ENTERPRISE INC PREPARE LEGAL	Haines Company
	SERVICE ROBERTD LONDON	Haines Company
	& ASSOCIATES SCL NIELSEN	Haines Company
	MULTIMODAL	Haines Company
	TRNSP SONIC APPRAISAL	Haines Company
	SOUTHCAL	Haines Company
	EDUCATIONAL	Haines Company
	TEL STAR	Haines Company
	WIRELESS THESESECURITY	Haines Company
	ASSOCIATES THY MERCHANDISE	Haines Company
	CORP TIME SECURITIES	Haines Company
	TONY LUU CPA	Haines Company
	TRADE EASY USA	Haines Company
	INC US CHINA EXPO INC	Haines Company
	WENDY LOGISTICS	Haines Company
	WHALE SHI	Haines Company
	BUILDING AA FUNDING GROUP	Haines Company
	ABC MANAGEMENT	Haines Company
	COLLP ABCO INTERNATL	Haines Company
	FREIGHT US INC AMER OVERSE	Haines Company
	COMPANY ASIAN AMERICAN	Haines Company
	FNCL INS SERV ASSOCTN OF	Haines Company
	AMERCN CHINESE	Haines Company
	NEWTWORKENGRG	Haines Company
	BPC INTL NETWORK	Haines Company
	ENGRG CHINAJNGDZHN	Haines Company
	GRP SPC INTERNATL	Haines Company
	& ASSOCIATES ROBERTH LONDON	Haines Company
	USA LAW CENTER	Haines Company
ECN INC	Haines Company	
UBERTYMUTUAL	Haines Company	
INSTITUTE TASTY EXPRESS	Haines Company	
1999	FLAIR DR 91731 CONT CHINESE YELLOW PAGE	Haines Company
	AMER DAZHENG PROPERTIES CORP	Haines Company

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	NESS PAUL L LAW OFFICES	Haines Company
	PHOENIX EXPRESS TRVL & TOURS INC	Haines Company
	SEVEN SEVEN SEVEN CLUB	Haines Company
	SINO CONTAINER LINES INC	Haines Company
	TOP COMMUNICATIONS	Haines Company
	TRI STAR PARALEGAL PRFSNL SERV	Haines Company
	TWI INDUSTRIES INC	Haines Company
	UNIONTECH ENGINEERING INC	Haines Company
	US ARTS	Haines Company
	US FEDERAL ADM SAFETY OFC	Haines Company
	WHALE SHIPPING INC	Haines Company
	BUILDING A B C INVESTMENT LLC	Haines Company
	A C CONTECH GROUP INC	Haines Company
	AFC INTERNATIONAL CO	Haines Company
	AMER OVERSEA COMPANY	Haines Company
	ASIAN AMER ASSOCIATION	Haines Company
	ASIAN AMER TELEMARKETING 626e	Haines Company
	ASIAN BUSINESS CO OP	Haines Company
	ASIAN BUSINESS CONNECTION	Haines Company
	B & B MEDIA INC	Haines Company
	C M T INTERNATIONAL INC	Haines Company
	CHINESE YELLOW PAGES	Haines Company
	EAST WEST BANK	Haines Company
	ERIC PEI INSURANCE AGENCY	Haines Company
	FUNCTION DESIGN	Haines Company
	J Y L NATIONAL PRODUCTS INC	Haines Company
	JADE JOSS INC THE	Haines Company
	K S C I TV STATION	Haines Company
	LIQU MAY F ATTY	Haines Company
	LIQU PETER CPA	Haines Company
1995	Santa Monica Culinary Welfare & Retirement Funds	Pacific Bell
	Santa Monica Mountains National Recreation Area	Pacific Bell
1991	San Gabriel Valley Hotel Restaurant Employer Union Welfare & Retirement Funds	Pacific Bell
	San Gabriel Valley Hotel Restaurant Employer Union	Pacific Bell
	Welfare & Retirement Funds	Pacific Bell
	From Los Angeles Telephones Call	Pacific Bell

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1991	Sangala B	Pacific Bell
	Sangalang Carlos & Marilou	Pacific Bell
	SANTA MONICA RESTAURANT & HOTEL ASSN-UNION WELFARE FUND	Pacific Bell
1990	SANTA MONICA CULINARY WELFARE & RETIREMENT FUNDS EL MONTE	Pacific Bell
	SAN GABRIEL VALLEY HOTEL RESTAURANT EMPLOYER UNION WELFARE & RETIREMENT FUN	Pacific Bell
	SAN GABRIEL VALLEY HOTEL RESTAURANT EMPLOYER UNION WELFARE & RETIREMENT FUN	Pacific Bell
	SAN GABRIEL VALLEY HOTEL RESTAURANT EMPLOYER UNION WELFARE & RETIREMENT FUN	Pacific Bell
	L A THEATRE PROJECTIONISTS-L A THEATRE OWNRS WELFARE FUND EL MONTE	Pacific Bell
	SO CALIF SHIPYARD EMPLOYEES & UNIONS HEALTH & WELFARE FUND EL MONTE	Pacific Bell
	1986	SCHOW R F & ASSOCIATES EL MONTE
	CHARTER MEDICAL CORP EL MONTE	Pacific Bell
	AUTOMATED OFFICE INC EL MONTE	Pacific Bell
	SECURITY PACIFIC FINANCE CORP	Pacific Bell
	DUPLEX PRODUCTS INC EL MONTE	Pacific Bell
	MCGRAW CHAS W	Pacific Bell
1985	KAISER STEEL CORPORATION	Pacific Bell
	EAST PARK LTD	Pacific Bell
	ORIENT TRADING CORP	Pacific Bell
	OLYMPIA U S A INC	Pacific Bell
	STROUP WILLIAM B & ASSOCIATES	Pacific Bell
	SUNCHIEF SOLAR SYSTEMS	Pacific Bell
	A 1 LOUS RENTAL ALHAMBRA	Pacific Bell
	ROSAS GILBERT M AN ACCOUNTANCY CORP	Pacific Bell
	CONTROLLED CORROSION ENGINEERING INC	Pacific Bell
	MC GRAW EDISON COMPANY POWER SYSTEMS DIVISION	Pacific Bell
	SCHOW F & ASSOCIATES	Pacific Bell
	SCHOW R F & ASSOCIATES	Pacific Bell
	SECURITY PACIFIC FINANCE CORP	Pacific Bell
ARKWNGHT-BOSTON INSURANCE	Pacific Bell	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1985	AUTOMATED OFFICE INC	Pacific Bell
	INFOREX	Pacific Bell
	NATURAL FOODS U S A INC	Pacific Bell
	AMERICAN PHOTO INC	Pacific Bell
	EAST PARK LTD	Pacific Bell
	DUPLEX PRODUCTS INC	Pacific Bell
1981	PATKAY S A & ASSOCIATES INC EL MONTE	Pacific Telephone
	ROBT M CLU EL MONTE	Pacific Telephone
	EL MONTE HAY MARKET EL MONTE	Pacific Telephone
	REDMAN ROY C INS BRKR EL MONTE	Pacific Telephone
	CAMPBELL SALES CO CANNED FOODS DIV EL MONTE	Pacific Telephone
	CAMPBELL SALES CO CANNED FOODS DIV EL MONTE	Pacific Telephone
	AMERICAN CREDITORS BUREAU OF LOS ANGELES EL MONTE	Pacific Telephone
	KAISER STEEL CORPORATION	Pacific Telephone
	CREAN RICHARD P INS BRKRS EL MONTE	Pacific Telephone
	LAMB REDMAN & CREAN INS BRKRS EL MONTE	Pacific Telephone
	SCHOW R F & ASSOCIATES EL MONTE	Pacific Telephone
	SECURITY PACIFIC FINANCE CORP	Pacific Telephone
	LAMB CARL C INS BRKR EL MONTE	Pacific Telephone
	CAMPBELL SALES CO CANNED FOODS DIV EL MONTE	Pacific Telephone
	ARKWRIGHT BOSTON INSURANCE EL MONTE	Pacific Telephone
	1980	INDEPENDENT ORDER OF FORESTERS NO 887 FLAIR DR EL MONTE
PATKAY STEPHEN & ASSOCIATES INC FLAIR DR EL MONTE		Pacific Telephone
EQUIVEST FLAIR DR EL MONTE		Pacific Telephone
BRAY OIL COMPANY FLAIR DR EL MONTE		Pacific Telephone
EL MONTE HAY MARKET FLAIR DR EL MONTE		Pacific Telephone
EQUIVEST FLAIR DR EL MONTE		Pacific Telephone
EQUIVEST FLAIR DR EL MONTE		Pacific Telephone
EQUIVEST FLAIR DR EL MONTE		Pacific Telephone
EQUIVEST FLAIR DR EL MONTE		Pacific Telephone
EQUIVEST FLAIR DR EL MONTE		Pacific Telephone
EQUIVEST FLAIR DR EL MONTE	Pacific Telephone	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	HIRSCHMANN BUILDING THE FLAIR DR EL MONTE	Pacific Telephone
	HIRSCHMANN CORPORATION MACH TOOLS FLAIR DR EL MONTE	Pacific Telephone
	HIRSCHMANN INDUSTRIAL CORP FLAIR DR EL MONTE	Pacific Telephone
	REALTY WORLD LICENSING SCHOOL FLAIR DR EL MONTE	Pacific Telephone
	REALTY WORLD REGIONAL HDQTRS FLAIR DR EL MONTE	Pacific Telephone
	TOWNSEND & BOTTUM INC FLAIR DR EL MONTE	Pacific Telephone
	METRO LIGHTING PRODUCTS FLAIR DR EL MONTE	Pacific Telephone
	UNITED STATES FLEET LEASING INC FLAIR DR EL MONTE	Pacific Telephone
	UNITED STATES GOVERNMENT	Pacific Telephone
	CALIF MORTGAGE SERVICE FLAIR DR EL MONTE	Pacific Telephone
	CAMPBELL SALES CO	Pacific Telephone
	CAMPBELL SALES CO	Pacific Telephone
	CAMPBELL SALES CO	Pacific Telephone
	CAMPBELL FROZEN FOOD DISTRIBUTING CO FLAIR DR EL MONTE	Pacific Telephone
	CAMPBELL SALES CO	Pacific Telephone
	CAMPBELL SALES CO	Pacific Telephone
	CAMPBELL SALES CO	Pacific Telephone
	FORD MOTOR CO AUTOMOTIVE EMISSIONS FLAIR DR EL MONTE	Pacific Telephone
	AETNA LIFE & CASUALTY LIFE DIVISION GENERAL AGENTS	Pacific Telephone
	AETNA LIFE INSURANCE AND ANNUITY COMPANY	Pacific Telephone
	AETNA VARIABLE ANNUITY LIFE INSURANCE COMPANY LOS ANGELES	Pacific Telephone
	KAISER STEEL CORPORATION FABRICATING DIV SALES OFFICE FLAIR DR EL MONTE	Pacific Telephone
	WARNER & SWASEY CO MACHRY FLAIR DR EL MONTE	Pacific Telephone
	GIANT INDUSTRIES INC FLAIR DR EL MONTE	Pacific Telephone
	SCHOW R F & ASSOCIATES FLAIR DR EL MONTE	Pacific Telephone
	AMERICAN CREDITORS BUREAU OF LOS ANGELES FLAIR DR EL MONTE	Pacific Telephone

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	LAMB REDMAN & CREAN INS BRKRS FLAIR DR EL MONTE	Pacific Telephone
	LAMB REDMAN & TRAVERS INS BRKRS FLAIR DR EL MONTE	Pacific Telephone
	SECURITY PACIFIC FINANCE CORP	Pacific Telephone
	WIEDEMANN DIV THE WARNER & SWASEY CO FLAIR DR EL MONTE	Pacific Telephone
	ARKWRIGHT BOSTON INSURANCE FLAIR DR EL MONTE	Pacific Telephone
	ASIAN AMERICAN NATIONAL BUSINESS ALLIANCE FLAIR DR EL MONTE	Pacific Telephone
	CREAN RICHARD P INS BRKRS FLAIR DR EL MONTE	Pacific Telephone
	BRAY OIL COMPANY	Pacific Telephone
1976	Pipe Products	Pacific Telephone
	Dooley J P & Associates	Pacific Telephone
	Hirschmann Corporation mach tools	Pacific Telephone
	El Monte Hay Market	Pacific Telephone
	Factory Mutual Ins Companies	Pacific Telephone
	Arkwright Boston Ins Co	Pacific Telephone
	Foxboro Co The	Pacific Telephone
	ARK WRIGHT BOSTON INSURANCE	Pacific Telephone
	After	Pacific Telephone
	TECHNISKILL INC	Pacific Telephone
	Mutual Boller & Machinery Ins Co Arkwright Boston Insurance	Pacific Telephone
	Schow R F & Associates	Pacific Telephone
	Warner & Swasey Co machry	Pacific Telephone
	Western Pacific Sales & Enineernng Co	Pacific Telephone
	Lamb Carl C ins brkr	Pacific Telephone
	Lamb Redman & Travers ins brkrs	Pacific Telephone
	Satec Systems Inc	Pacific Telephone
	Satec Systems Inc	Pacific Telephone
	Harman And Company	Pacific Telephone
	Aetna Life & Casualty Life Division General Agents	Pacific Telephone
	R E Dean CLU	Pacific Telephone
	Redman Roy C ins brkr	Pacific Telephone
	KAISER STEEL CORPORATION Automotive Div	Pacific Telephone
Fabricating Div Sales Office	Pacific Telephone	
Travers J P ins	Pacific Telephone	

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1975	MYERS L E CO THE EL MONTE	Pacific Telephone
	AETNA LIFE & CASUALTY LIFE DIVISION GENERAL AGENTS	Pacific Telephone
	AMERON	Pacific Telephone
	ARKWRIGHT BOSTON INSURANCE	Pacific Telephone
	MUTUAL BOILER & MACHINERY INS CO	Pacific Telephone
	HARMAN DAVID E CPA	Pacific Telephone
	EL MONTE HAY MARKET	Pacific Telephone
	EXECUDEX SAN SAN GABRIELRIEL VALLEY INC	Pacific Telephone
	FACTORY MUTUAL INS COMPANIES	Pacific Telephone
	KAISER STEEL CORPORATION FABRICATING DIVISION SALES OFFICE	Pacific Telephone
	KAISER STEEL CORPORATION FABRICATING DIVISION SALES OFFICE	Pacific Telephone
	INDEPENDENT ORDER OF FORESTERS NO 887	Pacific Telephone
	FILE JAS S CPA	Pacific Telephone
	FOXBORO CO THE	Pacific Telephone
	LAMB CART C INS BRKRS	Pacific Telephone
	LAMB AND REDMAN INS BRKRS	Pacific Telephone
	LAMB REDMAN & TRAVERS INS BRKRS	Pacific Telephone
	TECHNISKILL INC	Pacific Telephone
	L E MYERS CO THE	Pacific Telephone
	TURULL ROBT J HARMAN AND COMPANY	Pacific Telephone
	UNITED CALIFORNIA BANK REGIONAL HEADQUARTERS NO 5 EL MONTEONTE REGION 5	Pacific Telephone
	WIEDEMANN DIV THE WARNER & SWASEY CO	Pacific Telephone
	REDMAN ROY C INS BRKRS	Pacific Telephone
	WADDELL N PATRICK CPA	Pacific Telephone
	WARNER & SWASEY CO MACHRY	Pacific Telephone
	WESTERN PACIFIC SALES & ENGINEERING CO	Pacific Telephone
	HARMAN AND COMPANY	Pacific Telephone
	HELL-COIL WESTERN SALES DIVISION	Pacific Telephone
	SATEC SYSTEMS INC	Pacific Telephone
1971	AMERON Corporate Offices	Pacific Telephone
	Personnel & Insurance	Pacific Telephone
	Redman Roy C ins brkr	Pacific Telephone

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1971	GENERAL ELECTRIC COMPANY SALES Computer Time Sharing Service	Pacific Telephone
	San Gabriel Valley Br	Pacific Telephone
	Lamb And Redman ins brkr	Pacific Telephone
	Lamb Carl C ins brkr	Pacific Telephone
	Harman Waddell & Turull	Pacific Telephone
1970	LALNNINL CONTROLS CORP SEE CONRAC CORP	Pacific Telephone
	CONRAC CORP GLANLNL CONTROLS GROUP	Pacific Telephone
1967	KAISER STEEL CORPORATION SALES OFFICE	Pacific Telephone

### FLAIR E DR

#### 9350 FLAIR E DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1991	GE Electrical Distribution & Control	Pacific Bell
	GE Electrical Distribution & Control	Pacific Bell

### FLETCHER AVE

#### 3415 FLETCHER AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	EVANGELICAL	Haines Company
	FORMOSAN	Haines Company
	CHURCH LA	Haines Company
1999	EVANGELICAL FORMOSAN CHURCH LA 626 60 67 B	Haines Company
	NEW COAST MARKETING 06 05 95 L	Haines Company
1995	Petryha Geraldo J Oficinas Legales De	Pacific Bell
	New Coast Marketing Inc	Pacific Bell
	Petryha Jerry G The Law Offices Of	Pacific Bell
	Petrzllek FJ Cov	Pacific Bell
	Petryka ZJ	Pacific Bell
1985	RECOGNITION EQUIPMENT INC	Pacific Bell
	CAL WEST FOOD SERVICE INC	Pacific Bell
	REVERE COPPER AND BRASS INCORPORATED	Pacific Bell
	REVERE COPPER AND BRASS INCORPORATED	Pacific Bell

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1981	REVERE COPPER AND BRASS INCORPORATED EL MONTE	Pacific Telephone
	MC GRAW EDISON COMPANY	Pacific Telephone
1980	SOCALIF SURVEYORS JOINT APPRENTICESHIP COMMITTEE FLETCHER AVE EL MONTE	Pacific Telephone
	SURVEYORS JOINT APPRENTICESHIP COMMITTEE FOR SO CALIF FLETCHER AVE EL MONT	Pacific Telephone
	MCGRAW EDISON COMPANY FLETCHER AVE EL MONTE	Pacific Telephone
	CAL-OSHA 24 HR SERVICE FLETCHER AVE EL MONTE	Pacific Telephone
	CALIF WHOLESALE CENTRAL HEATING & AIR CONDITIONING FLETCHER AVE EL MONTE	Pacific Telephone
	CALIFORNIA STATE OF ATHLETIC COMMISSION LOS ANGELES	Pacific Telephone
	CALIFORNIA STATE OF CORRECTIONS DEPT PAROLE & COMMUNITY SERVICES DIVISION	Pacific Telephone
	CALIFORNIA STATE OF INDUSTRIAL RELATIONS DEPT OCCUPATIONAL SAFETY & HEALTH-C	Pacific Telephone
	SITZLER FAMILY STEAK HOUSES	Pacific Telephone
	HERALD-EXAMINER LOS ANGELES BRANCH OFFICES SERVING THE FOLLOWING AREAS	Pacific Telephone
	INTERNATIONAL HARVESTER CREDIT CORP FLETCHER AVE EL MONTE	Pacific Telephone
1976	Viault Clarence Grain Co commodity brkr	Pacific Telephone
	Canoga Industries	Pacific Telephone
	HERALD EXAMINER LOS ANGELES	Pacific Telephone
	Serving The Following Areas El Monte	Pacific Telephone
1975	L A GRAIN EXCHANGE EL MONTE	Pacific Telephone
	HERALD-EXAMINER LOS ANGELES	Pacific Telephone
	HERALD-EXAMINER LOS ANGELES	Pacific Telephone
	INTERNATIONAL HARVESTER CREDIT CORP	Pacific Telephone
	SITE RESEARCH CO	Pacific Telephone
	FOLLMER JACK GRAIN CO	Pacific Telephone
	TAYLOR CHAS T & CO	Pacific Telephone
	UNIVERSAL PROVIDERS INC	Pacific Telephone
	RANCHO VISTA	Pacific Telephone
	CALIFORNIA STATE OF CORRECTIONS DEPT SPECIAL SERVICES UNIT	Pacific Telephone

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1975	CALIFORNIA STATE OF	Pacific Telephone
	CALIFORNIA STATE OF	Pacific Telephone
	CANOGA INDUSTRIES	Pacific Telephone
	CAMPBELL JOHN W	Pacific Telephone
	PUBLIC STORAGE INC	Pacific Telephone
	PUBLIC STORAGE INC	Pacific Telephone
	PUBLIC STORAGE INC	Pacific Telephone
	RANCHO VISTA DEVELOPMENT CO	Pacific Telephone
	VIAULT CLARENCE GRAIN CO COMMODITY BRKR	Pacific Telephone
	VOLK DEVELOPMENTS INC	Pacific Telephone
	CARGILL INC	Pacific Telephone

### **3445 FLETCHER AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	AMREL AMERICAN	Haines Company
	RELIANCE	Haines Company
1999	ELECTRNC SOLUTIONS	Haines Company
1995	Scanbe Division Of Zero Corporation	Pacific Bell
1990	SCANBE EL MONTE	Pacific Bell
1986	SCANBE EL MONTE	Pacific Bell
1985	SCANBE	Pacific Bell
	SCANBE DIVISION OF ZERO CORPORATION	Pacific Bell
1981	SCANBE EL MONTE	Pacific Telephone
1980	SCANBE FLETCHER AVE EL MONTE	Pacific Telephone
1976	Scanbe Mfg Corp	Pacific Telephone
1975	SCANBE MFG CORP	Pacific Telephone

### **GATEWAY BLVD**

#### **GATEWAY BLVD**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1936		Los Angeles Directory Co.
1933		Los Angeles Directory Co.

## FINDINGS

### **LASHBROOK AVE**

#### **3516 LASHBROOK AVE**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
2006	e ALVARADO Robt M	Haines Company
1999	ALVARADO Robt M	Haines Company
1995	Alvarado Robt M	Pacific Bell
	ALVARADO ROBT M	Pacific Bell
1985	ALVARADO ROBT M	Pacific Bell
1980	ALVARADO ROBT M LASHBROOK AVE ROSEMEAD	Pacific Telephone
1975	ALVARADO ROBT M	Pacific Telephone
1966	LUCAS ALBERT F	Pacific Telephone
1960	LUCAS ALBERT E	Pacific Telephone
1957	LUCAS ALBERT E	Pacific Telephone

#### **3517 LASHBROOK AVE**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
2006	MATANGUIHAN	Haines Company
	Romulo	Haines Company
1980	MATANGUIHAN ROMULO T LASHBROOK AVE ROSEMEAD	Pacific Telephone
1975	SCHNEIDER RICHARD I	Pacific Telephone
1966	SCHNEIDER RICHARD I	Pacific Telephone
1960	SCHNEIDER RICHARD I	Pacific Telephone
1957	SCHNEIDER RICHARD I	Pacific Telephone

#### **3520 LASHBROOK AVE**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
2006	e OLD J J	Haines Company
1999	OLD J J	Haines Company
1995	Old J J	Pacific Bell
	OLD J J	Pacific Bell
1985	OLD J J	Pacific Bell
1975	OLD J L ROSEMEAD	Pacific Telephone
1966	OLD JAS J	Pacific Telephone
	OLD JUANITA L	Pacific Telephone
1960	OLD JUANITA L	Pacific Telephone
1957	OLD JUANITA L	Pacific Telephone

## FINDINGS

### 3521 LASHBROOK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	BROWN OTHEL LASHBROOK AVE ROSEMEAD	Pacific Telephone
1975	BROWN OTHEL	Pacific Telephone
1966	BROWN OTHEL	Pacific Telephone
1960	BROWN OTHEL	Pacific Telephone
1957	BROWN OTHEL	Pacific Telephone

### 3526 LASHBROOK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	NGOMai	Haines Company
	SU Kevin	Haines Company
1999	KITTO Rscoe	Haines Company
1995	Kittredge Kay 81	Pacific Bell
	Kitto Roscoe	Pacific Bell
	Kittredge Karen J	Pacific Bell
	KITTO ROSCOE	Pacific Bell
1985	KITTO ROSCO	Pacific Bell
1980	KITTO ROSCOE LASHBROOK AVE ROSEMEAD	Pacific Telephone
1975	KITTO ROSCOE ROSEMEAD	Pacific Telephone
1966	KITTO ROSCOE	Pacific Telephone
1960	KITTO ROSCOE	Pacific Telephone
1957	KITTO ROSCOE	Pacific Telephone

### 3527 LASHBROOK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	GONZALES Jesus	Haines Company
1985	GONZALEZ G V	Pacific Bell
	GONZALEZ G V	Pacific Bell
1980	GONZALEZ G V LASHBROOK AVE ROSEMEAD	Pacific Telephone
	GONZALEZ G V LASHBROOK AVE ROSEMEAD	Pacific Telephone
1975	GONZALES Y V	Pacific Telephone
1966	PRICE DAVID L	Pacific Telephone
1957	VAN KATWYK CHAS	Pacific Telephone

### 3532 LASHBROOK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	LAM To	Haines Company

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	TO Lam	Haines Company
1999	LAM To	Haines Company
	LAM To	Haines Company

### 3533 LASHBROOK AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	JONES Ed	Haines Company
1995	JONES ED D	Pacific Bell
	Jones Ed D	Pacific Bell
1966	JONES ED D	Pacific Telephone

### OLNEY ST

#### 9418 OLNEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	TRAVIS Greg	Haines Company
1985	TRAVIS GREG	Pacific Bell
1980	TRAVIS GREG OLNEY ST ROSEMEAD	Pacific Telephone
1966	FOSTER HOMER	Pacific Telephone
1960	MILLER LUCILLE	Pacific Telephone
1957	COWEN LEE	Pacific Telephone

#### 9419 OLNEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	PEPPER Wm J	Haines Company
1985	PEPPER WM J	Pacific Bell
1980	PEPPER WM J OLNEY ST ROSEMEAD	Pacific Telephone
1975	PEPPER WM J	Pacific Telephone
1960	FOSTER HOMER	Pacific Telephone
1957	MATHIS J A	Pacific Telephone

#### 9424 OLNEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	Elizabeth	Haines Company
	VALENZUELA	Haines Company
1966	BUSCAGLIA ELFREDA V	Pacific Telephone
1960	BUSCAGLIA ELFREDA V	Pacific Telephone
1957	BUSCAGLIA ELFREDA V	Pacific Telephone

## FINDINGS

### 9425 OLNEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	No Current Listing	Haines Company
1966	CAMPBELL PAUL A	Pacific Telephone
1960	CAMPBELL PAUL A	Pacific Telephone

### 9428 OLNEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	ARMENTA Nancy	Haines Company
1975	MUCHMORE JAS M	Pacific Telephone
1966	MUCHMORE JAS M	Pacific Telephone
1960	MUCHMORE JAS M	Pacific Telephone
	MUCHMORE JAS M	Pacific Telephone
1957	MUCHMORE JAS M	Pacific Telephone

### 9434 OLNEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	CALVERT Susan	Haines Company
1975	BASKIN DONALD LT CDR RET	Pacific Telephone
1966	BASKIN DONALD LT CDR RET	Pacific Telephone
1957	GERLINGER LYNN	Pacific Telephone

### 9435 OLNEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	FUENTES Leonard	Haines Company
1980	FUENTES LEONARD OLNEY ST ROSEMEAD	Pacific Telephone
1975	ANDRADE PLACIDO B	Pacific Telephone
1960	REEDER LARRY	Pacific Telephone

### 9438 OLNEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	HILLHulda	Haines Company
1966	HILL ROLLIN A	Pacific Telephone
1960	HILL ROLLIN A	Pacific Telephone
1957	HILL ROLLIN A	Pacific Telephone

### 9441 OLNEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	CRUZAlfredo	Haines Company
1985	CRUZ ALFRED	Pacific Bell

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	CRUZ ALFRED OLNEY ST ROSEMEAD	Pacific Telephone
1975	CRUZ ALFRED	Pacific Telephone
1966	MITTENDORF RALPH H	Pacific Telephone
1960	MITTENDORF RALPH H	Pacific Telephone
1957	MITTENDORF RALPH H	Pacific Telephone

### 9444 OLNEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	VAZQUEZ Rosa	Haines Company
	VASQUEZ Rosa	Haines Company
1985	GORDON JOSEPH P	Pacific Bell
1980	TORRES ANNA P OLNEY ST ROSEMEAD	Pacific Telephone
1975	TORRES ANNA P	Pacific Telephone
1960	GARCIA RALPH MRS	Pacific Telephone
1957	MURPHY ROBT R	Pacific Telephone

### 9447 OLNEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	RUANGSANGTHAI P	Haines Company
1985	OSWALD PAUL R	Pacific Bell
1980	OSWALD PAUL R OLNEY ST ROSEMEAD	Pacific Telephone
1975	OSWALD PAUL R	Pacific Telephone
1966	OSWALD PAUL R	Pacific Telephone
1960	GETTMAN JAKE	Pacific Telephone
1957	GETTMAN JAKE	Pacific Telephone

### 9450 OLNEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	GIOFFRE Rocco	Haines Company
1985	TAYLOR PAUL F	Pacific Bell
1980	TAYLOR PAUL F OLNEY ST ROSEMEAD	Pacific Telephone
1975	TAYLOR PAUL F	Pacific Telephone
1966	TAYLOR PAUL F	Pacific Telephone
1960	MCKEE PAUL R	Pacific Telephone
1957	MCKEE PAUL R	Pacific Telephone

### 9453 OLNEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	BANUELOS Susie	Haines Company
1966	CAMACHO JESSE M	Pacific Telephone

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1960	CAMACHO JESSE M	Pacific Telephone

### 9454 OLNEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	STANFORD M	Haines Company
1985	STANFORD WARREN	Pacific Bell
1980	STANFORD WARREN OLNEY ST ROSEMEAD	Pacific Telephone
1975	STANFORD WARREN	Pacific Telephone
1966	STANFORD WARREN	Pacific Telephone
1960	GRANGER RICHARD	Pacific Telephone
1957	GREEN R H MRS	Pacific Telephone

### 9457 OLNEY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	YEEMul CHAN Keung	Haines Company Haines Company
1966	MOON HERMAN	Pacific Telephone
1957	SNEAD JAS D	Pacific Telephone

### OLNEY WAY

#### 9418 OLNEY WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1995	TRAVISGREG	Pacific Bell

#### 9419 OLNEY WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1995	PEPPER WMJ	Pacific Bell

#### 9447 OLNEY WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1995	Oswald Paul R	Pacific Bell
	OSWALD PAUL R	Pacific Bell

#### 9450 OLNEY WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1995	PETERSON J W	Pacific Bell

## FINDINGS

### 9454 OLNEY WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1995	STANFORD WARREN	Pacific Bell

### RAMONA AVE

#### 9198 RAMONA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	GONZALEZLupe	Haines & Company

#### 9209 RAMONA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	9 AMEZCUACEverardo	Haines & Company

#### 9212 RAMONA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	MORENOAnn	Haines & Company

#### 9221 RAMONA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	GARCIALupe	Haines & Company
	GARCIAMario	Haines & Company
1956	Garcia Fred V	General Telephone Company Publishers

#### 9223 RAMONA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	XXXX	Haines & Company

#### 9224 RAMONA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	ROJAS Ray	Haines & Company
1965	ESPINOZA F L NA	GTE

#### 9233 RAMONA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	MARMOLEJOAlbert	Haines & Company

#### 9236 RAMONA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	ROJAS Ray	Haines & Company
1956	Gomez Fred	General Telephone Company Publishers

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1956	Carrillo Josephine	General Telephone Company Publishers

### 9245 RAMONA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	ROEL Kimberly	Haines & Company
1960	OBeso J G	General Telephone Company Publishers
1956	OBeso Jose G	General Telephone Company Publishers

### 9248 RAMONA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	LEON Francsco	Haines & Company

### 9251 RAMONA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	LAMBARENA Oscar	Haines & Company
1965	ALBA FRANCES	GTE

### 9254 RAMONA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	OGOMEZ Tony	Haines & Company
1965	GOMEZ T R NA	GTE
1960	Gomez Tony R	General Telephone Company Publishers

### 9263 RAMONA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	OCASTRO Elviro	Haines & Company
	HERNANDEZ Eduardo	Haines & Company
1965	VASQUEZ C NA	GTE
1956	Vasquez Concepcion	General Telephone Company Publishers

### 9266 RAMONA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	OGUTIERREZ Luis D	Haines & Company
1956	Salazar Ynocensio	General Telephone Company Publishers

## FINDINGS

### 9275 RAMONA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	OSOLANO Sylvia	Haines & Company
1956	Hernandez G G	General Telephone Company Publishers

### 9278 RAMONA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	BELTRAN Marmala	Haines & Company

### 9283 RAMONA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	OGONZALES Chrisdtina	Haines & Company
1965	GONZALES J A NA	GTE
1960	Gonzales John A	General Telephone Company Publishers

### 9286 RAMONA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1956	Soto Urban M	General Telephone Company Publishers

### 9287 RAMONA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	TRCKA Eugene	Haines & Company
1965	YBARRA S NA	GTE

### 9290 RAMONA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	ORTEGAGuillenmo	Haines & Company
1965	ORTEGA BILL	GTE
1960	Rodriguez Nick	General Telephone Company Publishers

### 9295 RAMONA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	RUND John	Haines & Company

### 9298 RAMONA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	RODRIGUEZ Davi	Haines & Company
1960	Dall Isto Eugene	General Telephone Company Publishers

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1956	Dallosto Eugene	General Telephone Company Publishers
<b>9308 RAMONA AVE</b>		
<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	WONG Yen	Haines & Company
<b>9322 RAMONA AVE</b>		
<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	MATTA David	Haines & Company
<b>9324 RAMONA AVE</b>		
<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	XXXX	Haines & Company
<b>9336 RAMONA AVE</b>		
<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	REMBA Ronald	Haines & Company
	XXXX	Haines & Company
<b>9354 RAMONA AVE</b>		
<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	ROJAS Manual	Haines & Company
	MILGROM Gary	Haines & Company
1965	BERGER MILDRED	GTE
<b>9356 RAMONA AVE</b>		
<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	ROJAS Moises	Haines & Company
1965	LUDWIG T L	GTE
<b>9366 RAMONA AVE</b>		
<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	GAYGenevieve	Haines & Company
<b>9368 RAMONA AVE</b>		
<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	XXXX	Haines & Company
<b>9374 RAMONA AVE</b>		
<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	BELTRAN Rosalino I	Haines & Company

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	SENGJoe	Haines & Company

### 9386 RAMONA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	MILLER Kerml	Haines & Company

### 9396 RAMONA AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2003	GANDRAOEAgusln	Haines & Company

### RAMONA BLVD

#### 9211 RAMONA BLVD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	ROYBAL Maria I	Haines Company
	WANG Pelchlh	Haines Company
1995	Perez P	Pacific Bell
	PEREZ P	Pacific Bell

#### 9219 RAMONA BLVD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	FINLEY Herbert	Haines Company

#### 9221 RAMONA BLVD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	No Current Listing	Haines Company
1985	VEGA-ACOSTA MANUEL	Pacific Bell
1975	ACOSTA MANUEL	Pacific Telephone

#### 9223 RAMONA BLVD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	No Current Listing	Haines Company

#### 9227 RAMONA BLVD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	No Current Listing	Haines Company

#### 9233 RAMONA BLVD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	MIN Kaung Myatsoe	Haines Company

## FINDINGS

### 9235 RAMONA BLVD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	A SHIEH Michael W	Haines Company
	OO Tn	Haines Company
	CHENJeffrey	Haines Company

### 9237 RAMONA BLVD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	o WIN Tha Zln	Haines Company
1995	Carrillo Tiffany	Pacific Bell
	I MANCIONE MARILYN A	Pacific Bell
	I Mancione Marilyn A	Pacific Bell

### 9239 RAMONA BLVD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	A TAN Chai Hwee	Haines Company
	CHEN Shin	Haines Company

### 9243 RAMONA BLVD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	YUHENG U	Haines Company
	ZHAO Rul Fang	Haines Company

### 9249 RAMONA BLVD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1985	WOLFSONH ELLA	Pacific Bell
1975	BENCH M M	Pacific Telephone

### 9259 RAMONA BLVD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	PEREZ Elena	Haines Company

### 9303 RAMONA BLVD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	FALLA Julio	Haines Company

### 9307 RAMONA BLVD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	LOJ	Haines Company

## FINDINGS

### 9311 RAMONA BLVD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	MARTINEZAIma	Haines Company

### 9317 RAMONA BLVD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	BERRUJohnny	Haines Company
	ESTRADA Laura	Haines Company
	MAOXiao	Haines Company

### 9323 RAMONA BLVD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	A FREYRE Edith	Haines Company
	APARTMENTS CORDONJenny	Haines Company
	WONG Warren	Haines Company
	TORRES Lidia	Haines Company
	ROBINSON Melissa	Haines Company

### 9329 RAMONA BLVD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	No Current Listing	Haines Company

### 9335 RAMONA BLVD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	ROBINSON Melissa	Haines Company
	MARTINEZJorge	Haines Company
	DURAZO Betty	Haines Company
	APARTMENTS BOLDING Micheal	Haines Company
	TENORIO John	Haines Company

### 9341 RAMONA BLVD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	SANCHEZYolanda	Haines Company

### 9343 RAMONA BLVD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	U TRUONGChi	Haines Company
	YE Yong Lian	Haines Company
	L PENAMaria	Haines Company
	ZOUYanan	Haines Company
	LI Yun Qing	Haines Company

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	LI Hao	Haines Company
	APARTMENTS CHANG Calvin	Haines Company
	DOMINGUEZ Arturo	Haines Company

### 9345 RAMONA BLVD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	PLASCENCIA Gerardo	Haines Company
	REPATO Rosito	Haines Company
	RUIZ Mesina	Haines Company
	ZHU Weitao	Haines Company

### 9349 RAMONA BLVD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	CHEN Alberl	Haines Company
	LO Paul	Haines Company
1995	Cun Thomas	Pacific Bell
	CUN BANG CA	Pacific Bell
	CUN THOMAS	Pacific Bell
1975	HUGHES BERNARD	Pacific Telephone

### 9355 RAMONA BLVD

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	CUN Bang Ca	Haines Company

## RAMONA ST

### 9205 RAMONA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1960	DAVIS WARD B	Pacific Telephone
1957	DAVIS WARD B	Pacific Telephone

### 9211 RAMONA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1960	NELSON ELVIN	Pacific Telephone
1957	NELSON ELVIN	Pacific Telephone

### 9219 RAMONA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1975	LEON VICTORIA R	Pacific Telephone

## FINDINGS

### 9221 RAMONA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1957	HILL MARY LEE	Pacific Telephone
	CURRY VIOLA M	Pacific Telephone

### 9223 RAMONA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1975	FINLEY H DR	Pacific Telephone

### 9227 RAMONA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1960	EADES IRENE M	Pacific Telephone
1957	CLICK MAVIS	Pacific Telephone

### 9233 RAMONA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1957	BALTIMORE JACK M	Pacific Telephone

### 9233 1/2 RAMONA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1975	AVILA PATRICIA A	Pacific Telephone
1960	LOPEZ RAUL	Pacific Telephone
1957	THAYER A JAS MRS	Pacific Telephone

### 9235 RAMONA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1957	SCHAEFER WM R MRS	Pacific Telephone

### 9239 RAMONA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1975	SAMPLE GLEN W	Pacific Telephone
1966	HOREISH ALICE R MRS	Pacific Telephone
1960	HOREISH ALICE R MRS	Pacific Telephone

### 9243 RAMONA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1960	LILBURN R D	Pacific Telephone
1957	LILBURN R D	Pacific Telephone

### 9249 RAMONA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1966	BENCH M M	Pacific Telephone

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1957	THOMPSON MILDRED	Pacific Telephone

### 9255 RAMONA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1975	SALES ANTONIO JR	Pacific Telephone
1966	SALES ANTONIO JR	Pacific Telephone

### 9303 RAMONA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1975	VALLANCE TELFORD L	Pacific Telephone
1966	VALLANCE TELFORD L	Pacific Telephone
1960	VALLANCE TELFORD L	Pacific Telephone
1957	VALLANCE TELFORD L	Pacific Telephone

### 9317 RAMONA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1995	Lang Thomas	Pacific Bell
	S Henao Camilo	Pacific Bell
	Lang Thomas A	Pacific Bell
1966	LEWIS RAY J	Pacific Telephone
1960	LEWIS RAY J	Pacific Telephone

### 9335 RAMONA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1975	PRITCHARD A C	Pacific Telephone
1966	PRITCHARD A G	Pacific Telephone
1960	PRITCHARD A G	Pacific Telephone
1957	PRITCHARD A G	Pacific Telephone

### 9343 RAMONA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1975	PEARL CHAS	Pacific Telephone

### 9349 RAMONA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1995	Cun Bang Ca	Pacific Bell
	Cun Hung Say	Pacific Bell
	Cun Hon Xay	Pacific Bell
	Cun Chi Ca	Pacific Bell
1960	SAVAGE CHAS F	Pacific Telephone

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1957	SAVAGE CHAS F	Pacific Telephone

### 9355 RAMONA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1960	BRUNO LEONARD	Pacific Telephone
1957	BRUNO LEONARD	Pacific Telephone

### RAMONA WAY

#### 9295 RAMONA WAY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1960	Martin Johnnie E	General Telephone Company Publishers

### RIO HONDO AVE

#### 3374 RIO HONDO AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	BURROUGHS CORPORATION BUSINESS MACHINES GROUP	Pacific Telephone

#### 3401 RIO HONDO AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1985	LYNWOOD INTERNATL 3S FOOD CENTER	Pacific Bell
1980	LOS ANGELES COUNTY OF PUBLIC SOCIAL SERVICES DEPT	Pacific Telephone
	LOS ANGELES COUNTY OF PUBLIC SOCIAL SERVICES DEPT	Pacific Telephone
	Case Complaint & Review Section	Pacific Bell Telephone
	LOS ANGELES COUNTY OF PUBLIC SOCIAL SERVICES DEPT INFORMATION	Pacific Telephone
	LOS ANGELES COUNTY OF PUBLIC SOCIAL SERVICES DEPT INFORMATION	Pacific Telephone
	GEORGE S CAFETERIA RIO HONDO AVE EL MONTE	Pacific Telephone
	Case Complaint & Review Section	Pacific Bell Telephone
	Administrative Hdqtrs	Pacific Bell Telephone
	Administrative Headquarters	Pacific Bell Telephone
	Case Complaint & Review Section	Pacific Telephone
	Central Fraud Reporting Line 24 Hr Hot Line	Pacific Telephone
	Administrative Hdqtrs	Pacific Telephone

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1976	PUBLIC SOCIAL SERVICES DEPT Administrative Ofcs Special Operations Bureau	Pacific Telephone
	LEW PEQ	Pacific Telephone
	LEW PEQ	Pacific Telephone
	PUBLIC SOCIAL SERVICES DEPT Administrative Ofcs Assistance Payments Bureau	Pacific Telephone
	PUBLIC SOCIAL SERVICES DEPT Administrative Ofcs Admin Hdqtrs	Pacific Telephone
	LEW PEQ	Pacific Telephone
	PUBLIC SOCIAL SERVICES DEPT Administrative Ofcs Social Services Bureau	Pacific Telephone
	LEW PEQ	Pacific Telephone
	PUBLIC SOCIAL SERVICES DEPT Administrative Ofcs Case Complaint & Review Section	Pacific Telephone
	LEW PEQ	Pacific Telephone
1975	Admin	Pacific Telephone
	LOS ANGELES COUNTY OF PUBLIC SOCIAL SERVICES DEPT	Pacific Telephone
	LOS ANGELES COUNTY OF PUBLIC SOCIAL SERVICES DEPT	Pacific Telephone
	Public Inquiry & Appeals	Pacific Telephone
	Admin Hdqtrs	Pacific Telephone

### 3510 RIO HONDO AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	o TRAVIS Frank	Haines Company
1980	CO OCEAN PARKBACKHOE SERVICE RIO HONDO AVE ROSEMEAD	Pacific Telephone
	FRANKS BACKHOE SERVICE RIO HONDO AVE ROSEMEAD	Pacific Telephone

### 3511 RIO HONDO AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1995	Lossing Leon	Pacific Bell
1985	LOSSING LEON	Pacific Bell
1980	LOSSING LEON RIO HONDO AVE ROSEMEAD	Pacific Telephone

### 3515 RIO HONDO AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	WANCheung	Haines Company

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	CHEN Gon	Haines Company
1995	Phung James B Pk	Pacific Bell
	Phung Ich Thanh	Pacific Bell
1985	ORTEGA RONALD E	Pacific Bell

### 3521 RIO HONDO AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	LOPEZ Margaret	Haines Company
1995	Lopez Raul	Pacific Bell
	Lopez Margaret	Pacific Bell
1985	LOPEZ RAUL	Pacific Bell
	LOPEZ MARGARET	Pacific Bell
1980	LOPEZ MARGARET RIO HONDO AVE ROSEMEAD	Pacific Telephone
	LOPEZ RAUL RIO HONDO AVE ROSEMEAD	Pacific Telephone

### 3522 RIO HONDO AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	SASTRAHandjoko	Haines Company

### 3525 RIO HONDO AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	o TINS	Haines Company
1985	BENDER E & M	Pacific Bell

### 3528 RIO HONDO AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	0 HERRERA Ismael	Haines Company
1995	Di Mascio Wayne	Pacific Bell
1985	DI MASCIO WAYNE	Pacific Bell
1980	DIMASCIO WAYNE RIO HONDO AVE ROSEMEAD	Pacific Telephone

### 3531 RIO HONDO AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	No Current Listing	Haines Company

### 3535 RIO HONDO AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	BWUYI	Haines Company
1985	KEW KWOK NUNG	Pacific Bell

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	HETHCOCK EDW RIO HONDO AVE ROSEMEAD	Pacific Telephone

### 3538 RIO HONDO AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	o AYALA Roger	Haines Company
1995	Ayala Roger	Pacific Bell

### 3541 RIO HONDO AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1975	HIGGINS L	Pacific Telephone

### 3545 RIO HONDO AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	HUANG Li Shan	Haines Company
	o ZHEN Qiang	Haines Company
1980	CAMEROTA LAWRENCE RIO HONDO AVE ROSEMEAD	Pacific Telephone

### 3551 RIO HONDO AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	WONG Sai	Haines Company
1990	HORTA SAML ROSEMEAD	Pacific Bell
1986	HORTA SAML ROSEMEAD	Pacific Bell
1985	HORTA SAML	Pacific Bell
1980	HORTA SAML RIO HONDO AVE ROSEMEAD	Pacific Telephone
1976	Horta Saml	Pacific Telephone

### RIO HONDO DR

#### 3401 RIO HONDO DR

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	LOS ANGELES COUNTY OF PUBLIC SOCIAL SERVICES DEPT	Pacific Telephone
	LOS ANGELES COUNTY OF PUBLIC SOCIAL SERVICES DEPT	Pacific Telephone
1975	LOS ANGELES COUNTY OF PUBLIC SOCIAL SERVICES DEPT ADMIN OFCS	Pacific Telephone
	LOS ANGELES COUNTY OF PUBLIC SOCIAL SERVICES DEPT ADMIN OFCS	Pacific Telephone

## FINDINGS

### **RIO HONDO PKY**

#### **3401 RIO HONDO PKY**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
1975	DUFFYS CAFETERIA	Pacific Telephone

#### **3450 RIO HONDO PKY**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
1950	BLAGG LEWIS F R	Pacific Telephone
	BLAGG LEWIS F R	Pacific Telephone

#### **3510 RIO HONDO PKY**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
1975	CO OP BACKHOE SERVICE	Pacific Telephone
	FRANKS BACKHOE SERVICE S	Pacific Telephone
1960	LONGOBARDO RUTH MRS	Pacific Telephone
1957	PARKER DONALD A	Pacific Telephone

#### **3515 RIO HONDO PKY**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
1995	PHUNG ICH THANH	Pacific Bell

#### **3521 RIO HONDO PKY**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
1995	LOPEZ RAUL	Pacific Bell
	LOPEZ MARGARET	Pacific Bell
1975	LOPEZ MARGARET	Pacific Telephone
	LOPEZ RAUL	Pacific Telephone
1960	DAVEY JAS H	Pacific Telephone
1957	DAVEY JAS H	Pacific Telephone

#### **3522 RIO HONDO PKY**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
1966	FADELY PAUL P ROSEMEAD	Pacific Telephone
1960	FADELY PAUL P	Pacific Telephone

#### **3525 RIO HONDO PKY**

<b><u>Year</u></b>	<b><u>Uses</u></b>	<b><u>Source</u></b>
1960	SPURR JEAN A	Pacific Telephone
1957	SPURR JEAN A	Pacific Telephone

## FINDINGS

### 3528 RIO HONDO PKY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1995	DIMASCIO WAYNE	Pacific Bell
1966	DUNBAR PEARL	Pacific Telephone
1960	LOWREY WALTER F	Pacific Telephone
1957	LOWREY WALTER F	Pacific Telephone

### 3534 RIO HONDO PKY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1966	LOWREY MARVIN H	Pacific Telephone
1960	LOWREY MARVIN H	Pacific Telephone
	NORTON HAL W	Pacific Telephone
1957	LOWREY MARVIN H	Pacific Telephone

### 3535 RIO HONDO PKY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1975	HETHCOCK EDW	Pacific Telephone
1966	HETHCOCK EDW	Pacific Telephone
1960	HETHCOCK EDW	Pacific Telephone
1957	HETHCOCK EDW	Pacific Telephone

### 3538 RIO HONDO PKY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1995	AYALA ROGER	Pacific Bell
1960	QUERRIEO RALPH	Pacific Telephone
1957	TURNER JAS W	Pacific Telephone

### 3541 RIO HONDO PKY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1966	CRUZAN NORMA	Pacific Telephone
1960	CRUZAN BILLY JOE	Pacific Telephone
1957	DISTOLRATH JAS	Pacific Telephone

### 3545 RIO HONDO PKY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1975	CAMEROTA LAWRENCE	Pacific Telephone
1966	CAMEROTA LAWRENCE	Pacific Telephone
1960	CAMEROTA LAWRENCE	Pacific Telephone
1957	CAMEROTA LAWRENCE	Pacific Telephone

## FINDINGS

### 3551 RIO HONDO PKY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1995	HORTASAML	Pacific Bell
1975	HORTA SAINT ROSEMEAD	Pacific Telephone

### RIO HONDO PL

#### 3551 RIO HONDO PL

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1971	Horta Saml	Pacific Telephone

### TELSTAR AVE

#### 9351 TELSTAR AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	FNSHRS LCL	Haines Company
	JAC	Haines Company
	APPRENTICESHIP JAEC TLE & MRBLE	Haines Company
	TILE INSTRUST	Haines Company
1995	JA E C Apprenticeship & Educational Trust	Pacific Bell
	TILELAYERS PENSION FUND	Pacific Bell
	Tile Ins Trust Fund	Pacific Bell
	Tilelayers Pension Fund	Pacific Bell
1990	DECO DARDANELLA ELECTRIC CORP L A DIVISION INGLEWOOD	Pacific Bell
	DARDANELLA ELECTRIC CORP L A DIVISION INGLEWOOD	Pacific Bell
1986	DARDANELLA ELECTRIC CORP OF EL MONTE EL MONTE	Pacific Bell
	DARDANELLA ELECTRIC CORP L A DIVISION INGLEWOOD	Pacific Bell
1985	DARDANELLA ELECTRIC CORP OF EL MONTE	Pacific Bell
	DECO DARDANELLA ELECTRIC CORP OF EL MONTE	Pacific Bell
1981	DECO DARDANELLA ELECTRIC CORP OF EL MONTE EL MONTE	Pacific Telephone
	DARDANELLA ELECTRIC CORP OF EL MONTE EL MONTE	Pacific Telephone
1980	DARDANELLA ELECTRIC CORP OF EL MONTE TELSTAR AVE EL MONTE	Pacific Telephone
	DECO DARDANELLA ELECTRIC CORP OF EL MONTE TELSTAR AVE EL MONTE	Pacific Telephone
1976	Deco Dardanella Electric Corp Of El Monte	Pacific Telephone

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1976	Dardanella Electric Corp Of El Monte	Pacific Telephone
1975	DECO DARDANELLA ELECTRIC CORP	Pacific Telephone
	DECO DARDANELLA ELECTRIC CORP	Pacific Telephone
	DARDANELLA ELECTRIC CORP	Pacific Telephone
	DARDANELLA ELECTRIC CORP	Pacific Telephone
	DARDANELLA ELECTRIC CORP OF EL MONTEONTE	Pacific Telephone

### 9443 TELSTAR AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	CHINESE CULTURAL	Haines Company
1995	Chinese Cultural Center	Pacific Bell

### 9451 TELSTAR AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	ACCOUNTING	Haines Company
	OFFICE OF JIMMY	Haines Company
	LOH LOH JIMMY	Haines Company
	ACCOUNTING	Haines Company
	OFFICE MJC AMERICA LTD	Haines Company
1995	Rich Lee Internat I Corp	Pacific Bell
1985	BURROUGHS CORPORATION COMPUTER SYSTEMS GROUP PASADENA PLANT	Pacific Bell
1980	BURROUGHS CORPORATION WESTERN MARKETING SUPPORT AREA CENTER TELSTAR AVE EL	Pacific Telephone
1975	BURROUGHS CORPORATION	Pacific Telephone

### 9521 TELSTAR AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	LITH O ROLL CORPORATION	Haines Company
1995	i Lith O Roll Corporation	Pacific Bell
	From Los Angeles Telephones Call	Pacific Bell
	LITH-O-ROLL CORPORATION	Pacific Bell
1990	LITH-O-ROLL CORPORATION EL MONTE	Pacific Bell
1985	LITH-O-ROLL CORPORATION	Pacific Bell
1981	LITH-O-ROLL CORPORATION EL MONTE	Pacific Telephone
1980	LIT-O-ROLL CORPORATION TELSTAR AVE EL MONTE	Pacific Telephone
1976	Lith O Roll Corporation	Pacific Telephone

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1975	LITH-O-ROLL CORPORALION	Pacific Telephone

### 9537 TELSTAR AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2006	CASTATEOF	Haines Company
	HEALTH CARE MICRO GAGE INC	Haines Company
	ELMNT ELMNT ADULT DAY	Haines Company
1995	North American Chinese Broadcasts	Pacific Bell
	Micro Gage Inc	Pacific Bell
	Micro Graphics Equipment Maintenance Organization	Pacific Bell
1985	H I ENTERPRISES INC	Pacific Bell
	GARVEY LUBELMATIC	Pacific Bell
	ROBERTSON H H CO DISTRICT	Pacific Bell
	MICRO GAGE INC	Pacific Bell
1981	H I ENTERPRISES INC EL MONTE	Pacific Telephone
	ROBERTSON H H CO	Pacific Telephone
1980	El Monte	Pacific Telephone
	El Monte	Pacific Telephone
	CALIFORNIA STATE OF EMPLOYMENT DEVELOPMENT DEPARTMENT EMPLOYMENT TAX DISTRI	Pacific Telephone
	CALIFORNIA STATE OF TAXES EMPLOYMENT DEVELOPMENT DEPARTMENT EMPLOYMENT TAX	Pacific Telephone
	MICRO GAGE INC TELSTAR AVE EL MONTE	Pacific Telephone
	ROBERTSON H H CO TELSTAR AVE EL MONTE	Pacific Telephone
	CALIFORNIA STATE OF EMPLOYMENT DEVELOPMENT DEPARTMENT EMPLOYMENT TAX DISTRIC	Pacific Telephone
1976	Air Flex Industries Inc	Pacific Telephone
1975	MICRO GAGE INC	Pacific Telephone
	H I ENTERPRISES INC	Pacific Telephone
	KIRK PAPER CO INC	Pacific Telephone
	PUBLIC STORAGE INC	Pacific Telephone

## FINDINGS

### TARGET PROPERTY: ADDRESS NOT LISTED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not listed in the research source.

#### Address Researched

9400 Flair Drive

#### Address Not Listed in Research Source

2004, 2003, 2001, 2000, 1996, 1992, 1991, 1972, 1971, 1970, 1969, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

### ADJOINING PROPERTY: ADDRESSES NOT LISTED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not listed in research source.

#### Address Researched

GATEWAY BLVD

#### Address Not Listed in Research Source

2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

3374 RIO HONDO AVE

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

3375 RIO HONDO AVE

2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

3401 RIO HONDO AVE

2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 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

3401 RIO HONDO DR

2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

3401 RIO HONDO PKY

2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

3415 FLETCHER AVE

2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920





























## FINDINGS

### Address Researched

9550 FLAIR DR

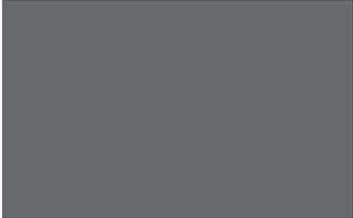
9550 FLAIR DR

### Address Not Listed in Research Source

2004, 2003, 2001, 2000, 1996, 1992, 1972, 1969, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

**Appendix C**  
EDR Database Search

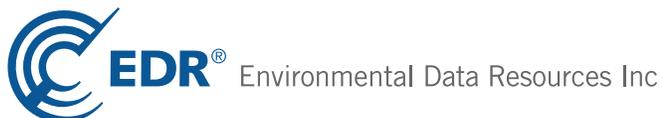


**Sargent Fletcher, Inc.**

9400 Flair Drive  
El Monte, CA 91731

Inquiry Number: 02465694.2r  
April 13, 2009

# The EDR Radius Map™ Report with GeoCheck®



440 Wheelers Farms Road  
Milford, CT 06461  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

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*Thank you for your business.*  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

9400 FLAIR DRIVE  
EL MONTE, CA 91731

#### COORDINATES

Latitude (North): 34.071100 - 34° 4' 16.0"  
Longitude (West): 118.063200 - 118° 3' 47.5"  
Universal Transverse Mercator: Zone 11  
UTM X (Meters): 401893.3  
UTM Y (Meters): 3770354.8  
Elevation: 260 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 34118-A1 EL MONTE, CA  
Most Recent Revision: 1994

### AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year: 2005  
Source: USDA

### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
SARGENT FLETCHER INC. 9400 EAST FLAIR DRIVE EL MONTE, CA 91731	FINDS HAZNET RCRA-LQG LA Co. Site Mitigation CA FID UST LOS ANGELES CO. HMS EMI SWEEPS UST	CAD008322737
SARGENT-FLETCHER CO. 9400 FLAIR DR. EL MONTE, CA 91731	SLIC Facility Status: Open - Site Assessment	N/A
SARGENT FLETCHER CO. 9400 FLAIR DR E EL MONTE, CA 91731	LUST Status: Open - Site Assessment	N/A

## EXECUTIVE SUMMARY

FLETCHER AVIATION (DEST)  
9400 E RAMONA BLVD  
EL MONTE, CA

LOS ANGELES CO. HMS

N/A

SARGENT-FLETCHER CO.  
9400 FLAIR DR  
EL MONTE, CA 91731

HIST UST  
WIP  
Facility Status: Backlog  
CA WDS

N/A

### **DATABASES WITH NO MAPPED SITES**

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

### **STANDARD ENVIRONMENTAL RECORDS**

#### ***Federal NPL site list***

Proposed NPL..... Proposed National Priority List Sites  
NPL LIENS..... Federal Superfund Liens

#### ***Federal Delisted NPL site list***

Delisted NPL..... National Priority List Deletions

#### ***Federal CERCLIS list***

CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System

#### ***Federal CERCLIS NFRAP site List***

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

#### ***Federal RCRA CORRACTS facilities list***

CORRACTS..... Corrective Action Report

#### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF..... RCRA - Transporters, Storage and Disposal

#### ***Federal RCRA generators list***

RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

#### ***Federal institutional controls / engineering controls registries***

US ENG CONTROLS..... Engineering Controls Sites List

## EXECUTIVE SUMMARY

US INST CONTROL..... Sites with Institutional Controls

### **Federal ERNS list**

ERNS..... Emergency Response Notification System

### **State and tribal landfill and/or solid waste disposal site lists**

SWF/LF..... Solid Waste Information System

### **State and tribal leaking storage tank lists**

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

### **State and tribal registered storage tank lists**

AST..... Aboveground Petroleum Storage Tank Facilities

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

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### **Local Brownfield lists**

US BROWNFIELDS..... A Listing of Brownfields Sites

#### **Local Lists of Landfill / Solid Waste Disposal Sites**

ODI..... Open Dump Inventory

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

WMUDS/SWAT..... Waste Management Unit Database

SWRCY..... Recycler Database

HAULERS..... Registered Waste Tire Haulers Listing

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

#### **Local Lists of Hazardous waste / Contaminated Sites**

US CDL..... Clandestine Drug Labs

HIST Cal-Sites..... Historical Calsites Database

SCH..... School Property Evaluation Program

Toxic Pits..... Toxic Pits Cleanup Act Sites

CDL..... Clandestine Drug Labs

#### **Local Land Records**

LIENS 2..... CERCLA Lien Information

LUCIS..... Land Use Control Information System

LIENS..... Environmental Liens Listing

DEED..... Deed Restriction Listing

#### **Records of Emergency Release Reports**

HMIRS..... Hazardous Materials Information Reporting System

## EXECUTIVE SUMMARY

CHMIRS..... California Hazardous Material Incident Report System  
LDS..... Land Disposal Sites Listing  
MCS..... Military Cleanup Sites Listing

### **Other Ascertainable Records**

DOT OPS..... Incident and Accident Data  
DOD..... Department of Defense Sites  
FUDS..... Formerly Used Defense Sites  
UMTRA..... Uranium Mill Tailings Sites  
MINES..... Mines Master Index File  
TRIS..... Toxic Chemical Release Inventory System  
TSCA..... Toxic Substances Control Act  
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)  
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing  
SSTS..... Section 7 Tracking Systems  
ICIS..... Integrated Compliance Information System  
PADS..... PCB Activity Database System  
MLTS..... Material Licensing Tracking System  
RADINFO..... Radiation Information Database  
RAATS..... RCRA Administrative Action Tracking System  
CA BOND EXP. PLAN..... Bond Expenditure Plan  
DRYCLEANERS..... Cleaner Facilities  
INDIAN RESERV..... Indian Reservations  
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing

### **EDR PROPRIETARY RECORDS**

#### ***EDR Proprietary Records***

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants  
EDR Historical Cleaners..... EDR Proprietary Historic Dry Cleaners

### **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 NPL site list***

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 02/02/2009 has revealed that there is 1 NPL 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>
<b>SAN GABRIEL VALLEY (AREA 1)</b>	<b>PECK RD &amp; REAL</b>	<b>E 1/2 - 1 (0.906 mi.)</b>	<b>0</b>	<b>23</b>

### ***Federal RCRA generators list***

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 11/12/2008 has revealed that there are 9 RCRA-SQG 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>LYTE OPTRONICS</b>	<b>3477 FLECTURE DR</b>	<b>E 1/8 - 1/4 (0.172 mi.)</b>	<b>F26</b>	<b>62</b>
<b>DEMETER TECHNOLOGIES INC</b>	<b>3477 FLETCHER AVE STE A</b>	<b>E 1/8 - 1/4 (0.175 mi.)</b>	<b>F30</b>	<b>66</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>ZERO CORP SCANBE DIV</b>	<b>3445 FLETCHER AVE</b>	<b>ESE 1/8 - 1/4 (0.175 mi.)</b>	<b>E31</b>	<b>69</b>
<b>MICRO GAGE INC</b>	<b>9537 TELSTAR AVE</b>	<b>SSE 1/8 - 1/4 (0.179 mi.)</b>	<b>I32</b>	<b>71</b>
<b>PAC FAB INC</b>	<b>9626 TELSTAR</b>	<b>SE 1/8 - 1/4 (0.205 mi.)</b>	<b>K38</b>	<b>77</b>
<b>SOUTH COAST AIR QUALITY MGMT D</b>	<b>9150 FLAIR DR</b>	<b>W 1/8 - 1/4 (0.223 mi.)</b>	<b>M46</b>	<b>86</b>
<b>A D PATHLABS LOS ANGELES</b>	<b>9440 TELSTAR AVENUE</b>	<b>S 1/8 - 1/4 (0.227 mi.)</b>	<b>N52</b>	<b>91</b>
<b>BIOSTAR MICROTECH USA CORP</b>	<b>9460 TELSTAR AVE UNIT 5</b>	<b>S 1/8 - 1/4 (0.227 mi.)</b>	<b>N53</b>	<b>94</b>
<b>ENVIROGENICS SYSTS CO</b>	<b>9255 TELSTAR AVE</b>	<b>SW 1/8 - 1/4 (0.246 mi.)</b>	<b>P57</b>	<b>97</b>

### ***State- and tribal - equivalent NPL***

RESPONSE: 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.

A review of the RESPONSE list, as provided by EDR, and dated 02/23/2009 has revealed that there is 1 RESPONSE 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>
<b>AEROJET GENERAL CORP.</b>	<b>9100 FLAIR DRIVE</b>	<b>W 1/4 - 1/2 (0.319 mi.)</b>	<b>65</b>	<b>104</b>

## EXECUTIVE SUMMARY

### **State- and tribal - equivalent CERCLIS**

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 12/31/1998 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		SSW 1/8 - 1/4 (0.239 mi.)	0	23

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 02/23/2009 has revealed that there is 1 ENVIROSTOR 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>
<b>AEROJET GENERAL CORP.</b> Status: Active	<b>9100 FLAIR DRIVE</b>	<b>W 1/4 - 1/2 (0.319 mi.)</b>	<b>65</b>	<b>104</b>

### **State and tribal leaking storage tank lists**

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 01/06/2009 has revealed that there are 2 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>
<b>ARCO #6035</b> Status: Open - Remediation	<b>9824 FLAIR DR</b>	<b>E 1/4 - 1/2 (0.493 mi.)</b>	<b>83</b>	<b>116</b>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HAAGEN SMIT LABORATORY Status: Open - Site Assessment	9528 TELSTAR AVENUE	SSE 1/8 - 1/4 (0.167 mi.)	D17	55

## EXECUTIVE SUMMARY

SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 01/06/2009 has revealed that there are 44 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>
RAYTHEON COMPUTER Facility Status: Open - Site Assessment	9550 FLAIR DR. #3	ENE 1/8 - 1/4 (0.130 mi.)	C11	51
L. A. COUNTY FIRE FIGHTERS-LOC Facility Status: Open - Site Assessment	3460 FLETCHER AVE.	E 1/8 - 1/4 (0.171 mi.)	E20	57
AXT, INC Facility Status: Open - Site Assessment	3477 FLETCHER AVE.	E 1/8 - 1/4 (0.171 mi.)	F21	57
<b><i>XPEDX PAPERS &amp; GRAPHICS</i></b> Facility Status: Open - Site Assessment	<b><i>9620 FLAIR DR</i></b>	<b><i>ENE 1/8 - 1/4 (0.217 mi.)</i></b>	<b><i>43</i></b>	<b><i>83</i></b>
<b><i>LASERTECH COMPUTER DIST. INC.</i></b> Facility Status: Open - Site Assessment	<b><i>9680 FLAIR DR</i></b>	<b><i>ENE 1/4 - 1/2 (0.323 mi.)</i></b>	<b><i>66</i></b>	<b><i>107</i></b>
<b><i>MARTIN, JACK COMPANY, INC.</i></b> Facility Status: Open - Site Assessment	<b><i>9830 BALDWIN PL</i></b>	<b><i>E 1/4 - 1/2 (0.480 mi.)</i></b>	<b><i>81</i></b>	<b><i>115</i></b>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>LA CO DEPT OF PUB SOC SERV</i></b> Facility Status: Open - Site Assessment	<b><i>3405 RIO HONDO AVE</i></b>	<b><i>WSW 0 - 1/8 (0.081 mi.)</i></b>	<b><i>6</i></b>	<b><i>47</i></b>
TELE TV/WORLDCOM BROADBAND Facility Status: Open - Site Assessment	3375 RIO HONDO AVE.	SW 0 - 1/8 (0.101 mi.)	B7	48
<b><i>CHINESE CULTURE CENTER</i></b> Facility Status: Open - Site Assessment	<b><i>9443 TELSTAR AVE</i></b>	<b><i>S 1/8 - 1/4 (0.155 mi.)</i></b>	<b><i>12</i></b>	<b><i>51</i></b>
STATE AIR RESOURCES BOARD Facility Status: Open - Site Assessment	9528 TELSTAR AVE.	SSE 1/8 - 1/4 (0.167 mi.)	D14	53
<b><i>GENERAL ELECTRIC CO.</i></b> Facility Status: Open - Site Assessment	<b><i>9530 TELSTAR AVE</i></b>	<b><i>SSE 1/8 - 1/4 (0.168 mi.)</i></b>	<b><i>D18</i></b>	<b><i>55</i></b>
LITH O ROLL Facility Status: Open - Site Assessment	9521 TELSTAR AVE.	SSE 1/8 - 1/4 (0.172 mi.)	D23	59
ZERO CORP/FORMER ELECTRONICS S Facility Status: Completed - Case Closed	3445 FLETCHER AVENUE	ESE 1/8 - 1/4 (0.174 mi.)	G28	65
EL MONTE INDUSTRIAL COMPLEX Facility Status: Open - Site Assessment	9537 TELSTAR AVE.	SSE 1/8 - 1/4 (0.179 mi.)	I33	74
<b><i>EVANGELICAL CHURCH</i></b> Facility Status: Open - Site Assessment	<b><i>9364 TELSTAR AVE</i></b>	<b><i>SSW 1/8 - 1/4 (0.184 mi.)</i></b>	<b><i>H34</i></b>	<b><i>74</i></b>
<b><i>LOGOS EVANGELICAL SEMINARY</i></b> Facility Status: Open - Site Assessment	<b><i>9358 TELSTAR AVE</i></b>	<b><i>SW 1/8 - 1/4 (0.186 mi.)</i></b>	<b><i>H35</i></b>	<b><i>75</i></b>
<b><i>PACIFIC FABRICATION CO</i></b> Facility Status: Open - Site Assessment	<b><i>9626 TELSTAR AV</i></b>	<b><i>SE 1/8 - 1/4 (0.205 mi.)</i></b>	<b><i>K39</i></b>	<b><i>80</i></b>
<b><i>AVNET</i></b> Facility Status: Open - Site Assessment	<b><i>9320 TELSTAR AVE</i></b>	<b><i>SW 1/8 - 1/4 (0.205 mi.)</i></b>	<b><i>J40</i></b>	<b><i>81</i></b>
<b><i>FORMER AEROJET SITE</i></b> Facility Status: Open - Site Assessment	<b><i>9319 TELSTAR AVE</i></b>	<b><i>SW 1/8 - 1/4 (0.207 mi.)</i></b>	<b><i>L41</i></b>	<b><i>82</i></b>
FORMER AEROJET SITE Facility Status: Open - Site Assessment	9319 TELSTAR AVE.	SW 1/8 - 1/4 (0.207 mi.)	L42	83
<b><i>KELLY PAPER CO.</i></b> Facility Status: Open - Site Assessment	<b><i>9640 TELSTAR AVE</i></b>	<b><i>ESE 1/8 - 1/4 (0.226 mi.)</i></b>	<b><i>47</i></b>	<b><i>88</i></b>

## EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>FLAIR COMMERCE CENTER</b> Facility Status: Open - Site Assessment	<b>9420 TELSTAR AVE</b>	<b>S 1/8 - 1/4 (0.227 mi.)</b>	<b>N48</b>	<b>88</b>
L. A. WEB OFFSET PRINTING, INC Facility Status: Open - Site Assessment	9639 TELSTAR AVE.	ESE 1/8 - 1/4 (0.244 mi.)	Q55	96
ENVIROGENICS SYSTEMS COMPANY Facility Status: Open - Site Assessment	9255 TELSTAR AVE.	SW 1/8 - 1/4 (0.246 mi.)	P56	96
AXT, CORP. Facility Status: Open - Site Assessment	9650 TELSTAR AVE.	ESE 1/4 - 1/2 (0.256 mi.)	Q59	101
<b>MARSHALL INDUSTRIES (AVNET)</b> Facility Status: Open - Site Assessment	<b>9661 TELSTAR AVE</b>	<b>ESE 1/4 - 1/2 (0.267 mi.)</b>	<b>Q60</b>	<b>101</b>
<b>DEMETER TECHNOLOGIES, INC.</b> Facility Status: Open - Site Assessment	<b>9654 TELSTAR AVE</b>	<b>ESE 1/4 - 1/2 (0.270 mi.)</b>	<b>Q61</b>	<b>102</b>
<b>PC PLUS CORP./CROSS OCEAN</b> Facility Status: Open - Site Assessment	<b>9674 TELSTAR AVE</b>	<b>ESE 1/4 - 1/2 (0.282 mi.)</b>	<b>Q62</b>	<b>102</b>
THRIFTY ICE CREAM Facility Status: Open - Site Assessment	9200 TELSTAR AVE.	WSW 1/4 - 1/2 (0.282 mi.)	63	103
VALLEY WESTERN DISTRIBUTOR, INC Facility Status: Open - Site Assessment	9666 TELSTAR AVE.	ESE 1/4 - 1/2 (0.313 mi.)	64	103
<b>LAC DEPT. OF SOCIAL SERVICES</b> Facility Status: Open - Site Assessment	<b>3352 AEROJET AVE</b>	<b>WSW 1/4 - 1/2 (0.337 mi.)</b>	<b>67</b>	<b>108</b>
RHR MANAGEMENT, INC. Facility Status: Open - Site Assessment	9040 TELSTAR AVE.	WSW 1/4 - 1/2 (0.360 mi.)	68	108
<b>SOUTHERN CALIFORNIA GAS CO.</b> Facility Status: Completed - Case Closed	<b>9407 WHITMORE ST</b>	<b>SSW 1/4 - 1/2 (0.394 mi.)</b>	<b>R69</b>	<b>109</b>
J.A. BOZUNG HOLDINGS, INC., FO Facility Status: Completed - Case Closed	9401 WHITMORE STREET	SSW 1/4 - 1/2 (0.396 mi.)	R70	109
<b>HUBBLE SPECIALTY PRINTING</b> Facility Status: Open - Site Assessment	<b>9300 WHITMORE ST</b>	<b>SSW 1/4 - 1/2 (0.417 mi.)</b>	<b>71</b>	<b>110</b>
<b>JAN &amp; SCHUYLER COMPANY</b> Facility Status: Open - Site Assessment	<b>9240 WHITMORE ST</b>	<b>SSW 1/4 - 1/2 (0.435 mi.)</b>	<b>S73</b>	<b>110</b>
SOUTHERN CALIFORNIA GAS CO. Facility Status: Completed - Case Closed	9231 WHITMORE ST.	SW 1/4 - 1/2 (0.442 mi.)	S74	111
<b>FORMER LITH-O-ROLL CORP</b> Facility Status: Open - Site Assessment	<b>9210 WHITMORE ST</b>	<b>SW 1/4 - 1/2 (0.444 mi.)</b>	<b>S75</b>	<b>111</b>
<b>PACIFIC SANDBLASTING CO., INC.</b> Facility Status: Open - Site Assessment	<b>3224 N. ROSEMEAD BLVD.</b>	<b>SW 1/4 - 1/2 (0.460 mi.)</b>	<b>T76</b>	<b>112</b>
<b>GLENBOROUGH CORP./SO. CAL GAS</b> Facility Status: Open - Site Assessment	<b>3200 ROSEMEAD BLVD</b>	<b>SW 1/4 - 1/2 (0.463 mi.)</b>	<b>T77</b>	<b>113</b>
<b>FLAIR DRIVE COMMERCIAL PARK</b> Facility Status: Open - Site Assessment	<b>3360 FLAIR DR</b>	<b>WSW 1/4 - 1/2 (0.472 mi.)</b>	<b>78</b>	<b>113</b>
FORMER LITH-O-ROLL CORP. Facility Status: Open - Site Assessment	9852 BALDWIN PL.	E 1/4 - 1/2 (0.479 mi.)	U79	114
IRONTITE PROD. CO., INC. Facility Status: Open - Site Assessment	9858 BALDWIN PL.	E 1/4 - 1/2 (0.480 mi.)	U80	114
<b>TEONG H. KAY</b> Facility Status: Open - Site Assessment	<b>3154 ROSEMEAD BLVD</b>	<b>SSW 1/4 - 1/2 (0.483 mi.)</b>	<b>82</b>	<b>115</b>

## EXECUTIVE SUMMARY

### ***State and tribal registered storage tank lists***

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, and dated 01/06/2009 has revealed that there are 2 UST 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>CAL STATE AIR RESOURCE BOARD</b> 9150 FLAIR, LLC	<b>9528 TELSTAR AVE</b> 9150 FLAIR DR	<b>SSE 1/8 - 1/4 (0.167 mi.)</b> W 1/8 - 1/4 (0.223 mi.)	<b>D16</b> M44	<b>54</b> 84

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***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 12/31/1998 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		SSW 1/8 - 1/4 (0.239 mi.)	0	23

#### ***Local Lists of Registered Storage Tanks***

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 2 CA FID UST 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>CAL STATE AIR RESOURCE BOARD</b>	<b>9528 TELSTAR AVE</b>	<b>SSE 1/8 - 1/4 (0.167 mi.)</b>	<b>D13</b>	<b>52</b>
<b>ENVIROGENICS SYSTS CO</b>	<b>9255 TELSTAR AVE</b>	<b>SW 1/8 - 1/4 (0.246 mi.)</b>	<b>P57</b>	<b>97</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 5 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>
GEO. A. HILLEBRECHT, INC.		WNW 0 - 1/8 (0.124 mi.)	9	49
<b>COOK-BOYNTON CO</b>	<b>3460 FLETCHER AVE</b>	<b>E 1/8 - 1/4 (0.171 mi.)</b>	<b>E19</b>	<b>56</b>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
AIR RESOURCES BOARD	9528 TELSTAR AVE	SSE 1/8 - 1/4 (0.167 mi.)	D15	53

## EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>SO COAST AIR QUALITY MGT DIST</b> ENVIROGENCIS SYSTEMS COMPANY	<b>9150 FLAIR DR</b> 9255 TELSTAR AVE	<b>W 1/8 - 1/4 (0.223 mi.)</b> SW 1/8 - 1/4 (0.246 mi.)	<b>M45</b> P58	<b>84</b> 100

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 4 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>COOK-BOYNTON CO</b>	<b>3460 FLETCHER AVE</b>	<b>E 1/8 - 1/4 (0.171 mi.)</b>	<b>E19</b>	<b>56</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CAL STATE AIR RESOURCE BOARD</b>	<b>9528 TELSTAR AVE</b>	<b>SSE 1/8 - 1/4 (0.167 mi.)</b>	<b>D16</b>	<b>54</b>
<b>SO COAST AIR QUALITY MGT DIST</b>	<b>9150 FLAIR DR</b>	<b>W 1/8 - 1/4 (0.223 mi.)</b>	<b>M45</b>	<b>84</b>
<b>ENVIROGENCIS SYSTS CO</b>	<b>9255 TELSTAR AVE</b>	<b>SW 1/8 - 1/4 (0.246 mi.)</b>	<b>P57</b>	<b>97</b>

### **Other Ascertainable Records**

RCRA-NonGen: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA-NonGen list, as provided by EDR, and dated 11/12/2008 has revealed that there are 2 RCRA-NonGen 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>ROBERT AND DEBORAH GARCIA</b>	<b>9530 OLNEY ST</b>	<b>NE 1/8 - 1/4 (0.191 mi.)</b>	<b>37</b>	<b>76</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>GESTETNER CORP</b>	<b>9500 TELSTAR AVE</b>	<b>S 1/8 - 1/4 (0.227 mi.)</b>	<b>N50</b>	<b>89</b>

CONSENT: Major Legal settlements that establish responsibility and standards for cleanup at NPL (superfund) sites. Released periodically by U.S. District Courts after settlement by parties to litigation matters.

A review of the CONSENT list, as provided by EDR, and dated 11/03/2008 has revealed that there is 1 CONSENT 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>
<b>SAN GABRIEL VALLEY (AREA 1)</b>	<b>PECK RD &amp; REAL</b>	<b>E 1/2 - 1 (0.906 mi.)</b>	<b>0</b>	<b>23</b>

## EXECUTIVE SUMMARY

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 10/21/2008 has revealed that there is 1 ROD 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>
<b>SAN GABRIEL VALLEY (AREA 1)</b>	<b>PECK RD &amp; REAL</b>	<b>E 1/2 - 1 (0.906 mi.)</b>	<b>0</b>	<b>23</b>

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

A review of the Cortese list, as provided by EDR, and dated 01/21/2009 has revealed that there is 1 Cortese site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>AEROJET GENERAL CORP.</b>	<b>9100 FLAIR DRIVE</b>	<b>W 1/4 - 1/2 (0.319 mi.)</b>	<b>65</b>	<b>104</b>

Notify 65: Notify 65 records contain facility notifications about any release that could impact drinking water and thereby expose the public to a potential health risk. The data come from the State Water Resources Control Board's Proposition 65 database.

A review of the Notify 65 list, as provided by EDR, and dated 10/21/1993 has revealed that there is 1 Notify 65 site 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>
UNKNOWN	C/O AEROJET / TELSTAR	WSW 1/4 - 1/2 (0.422 mi.)	72	110

WIP: Well Investigation Program case in the San Gabriel and San Fernando Valley area.

A review of the WIP list, as provided by EDR, and dated 10/31/2008 has revealed that there are 26 WIP 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>
RAYTHEON COMPUTER Facility Status: Active	9550 FLAIR DR	ENE 1/8 - 1/4 (0.130 mi.)	C10	51
<b>COOK-BOYNTON CO</b> Facility Status: Active	<b>3460 FLETCHER AVE</b>	<b>E 1/8 - 1/4 (0.171 mi.)</b>	<b>E19</b>	<b>56</b>
<b>ALPHA PHOTONICS, INC</b> Facility Status: Active	<b>3477 FLETCHER AVE</b>	<b>E 1/8 - 1/4 (0.171 mi.)</b>	<b>F22</b>	<b>58</b>
<b>XPEDX PAPERS &amp; GRAPHICS</b> Facility Status: Active	<b>9620 FLAIR DR</b>	<b>ENE 1/8 - 1/4 (0.217 mi.)</b>	<b>43</b>	<b>83</b>
FORMER AEROJET-GENERAL CORP. Facility Status: Active	9200 E FLAIR DR	WNW 1/8 - 1/4 (0.242 mi.)	54	96
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>LA CO DEPT OF PUB SOC SERV</b> Facility Status: Active	<b>3405 RIO HONDO AVE</b>	<b>WSW 0 - 1/8 (0.081 mi.)</b>	<b>6</b>	<b>47</b>

## EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CROSS COUNTRY WIRELESS</b> Facility Status: Active	<b>3375 RIO HONDO AVE</b>	<b>SW 0 - 1/8 (0.102 mi.)</b>	<b>B8</b>	<b>48</b>
<b>CHINESE CULTURE CENTER</b> Facility Status: Active	<b>9443 TELSTAR AVE</b>	<b>S 1/8 - 1/4 (0.155 mi.)</b>	<b>12</b>	<b>51</b>
<b>CAL STATE AIR RESOURCE BOARD</b> Facility Status: Active	<b>9528 TELSTAR AVE</b>	<b>SSE 1/8 - 1/4 (0.167 mi.)</b>	<b>D13</b>	<b>52</b>
<b>GENERAL ELECTRIC CO.</b> Facility Status: Active Facility Status: Historical	<b>9530 TELSTAR AVE</b>	<b>SSE 1/8 - 1/4 (0.168 mi.)</b>	<b>D18</b>	<b>55</b>
<b>LITH-O-ROLL</b> Facility Status: Active	<b>9521 TELSTAR AVE</b>	<b>SSE 1/8 - 1/4 (0.172 mi.)</b>	<b>D24</b>	<b>60</b>
ELECTRONIC SOLUTIONS Facility Status: Backlog	3445 FLETCHER AVE	ESE 1/8 - 1/4 (0.174 mi.)	G27	65
MOBILECOMM Facility Status: Historical	9384 TELSTAR AVE	SSW 1/8 - 1/4 (0.174 mi.)	H29	65
<b>MICRO GAGE INC</b> Facility Status: Active Facility Status: Historical	<b>9537 TELSTAR AVE</b>	<b>SSE 1/8 - 1/4 (0.179 mi.)</b>	<b>I32</b>	<b>71</b>
<b>EVANGELICAL CHURCH</b> Facility Status: Active	<b>9364 TELSTAR AVE</b>	<b>SSW 1/8 - 1/4 (0.184 mi.)</b>	<b>H34</b>	<b>74</b>
<b>LOGOS EVANGELICAL SEMINARY</b> Facility Status: Active	<b>9358 TELSTAR AVE</b>	<b>SW 1/8 - 1/4 (0.186 mi.)</b>	<b>H35</b>	<b>75</b>
DARDANELLA ELECTRIC CORP/DECO Facility Status: Historical	9351 TELSTAR AVE	SW 1/8 - 1/4 (0.190 mi.)	J36	76
<b>PACIFIC FABRICATION CO</b> Facility Status: Active	<b>9626 TELSTAR AV</b>	<b>SE 1/8 - 1/4 (0.205 mi.)</b>	<b>K39</b>	<b>80</b>
<b>AVNET</b> Facility Status: Active	<b>9320 TELSTAR AVE</b>	<b>SW 1/8 - 1/4 (0.205 mi.)</b>	<b>J40</b>	<b>81</b>
<b>FORMER AEROJET SITE</b> Facility Status: Active Facility Status: Active	<b>9319 TELSTAR AVE</b>	<b>SW 1/8 - 1/4 (0.207 mi.)</b>	<b>L41</b>	<b>82</b>
<b>SO COAST AIR QUALITY MGT DIST</b> Facility Status: Historical	<b>9150 FLAIR DR</b>	<b>W 1/8 - 1/4 (0.223 mi.)</b>	<b>M45</b>	<b>84</b>
<b>KELLY PAPER CO.</b> Facility Status: Active Facility Status: Historical	<b>9640 TELSTAR AVE</b>	<b>ESE 1/8 - 1/4 (0.226 mi.)</b>	<b>47</b>	<b>88</b>
<b>FLAIR COMMERCE CENTER</b> Facility Status: Active	<b>9420 TELSTAR AVE</b>	<b>S 1/8 - 1/4 (0.227 mi.)</b>	<b>N48</b>	<b>88</b>
MITE CORPORATION Facility Status: Historical	9440 TELSTAR AVE	S 1/8 - 1/4 (0.227 mi.)	N49	89
ORGANON DIAGNOSTICS Facility Status: Historical	9440 TELSTAR AVE	S 1/8 - 1/4 (0.227 mi.)	N51	91
<b>ENVIROGENICS SYSTS CO</b> Facility Status: Active	<b>9255 TELSTAR AVE</b>	<b>SW 1/8 - 1/4 (0.246 mi.)</b>	<b>P57</b>	<b>97</b>

# EXECUTIVE SUMMARY

## EDR PROPRIETARY RECORDS

### ***EDR Proprietary Records***

EDR Historical Auto Stations: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

A review of the EDR Historical Auto Stations list, as provided by EDR, has revealed that there is 1 EDR Historical Auto Stations site within approximately 0.25 miles of the target property.

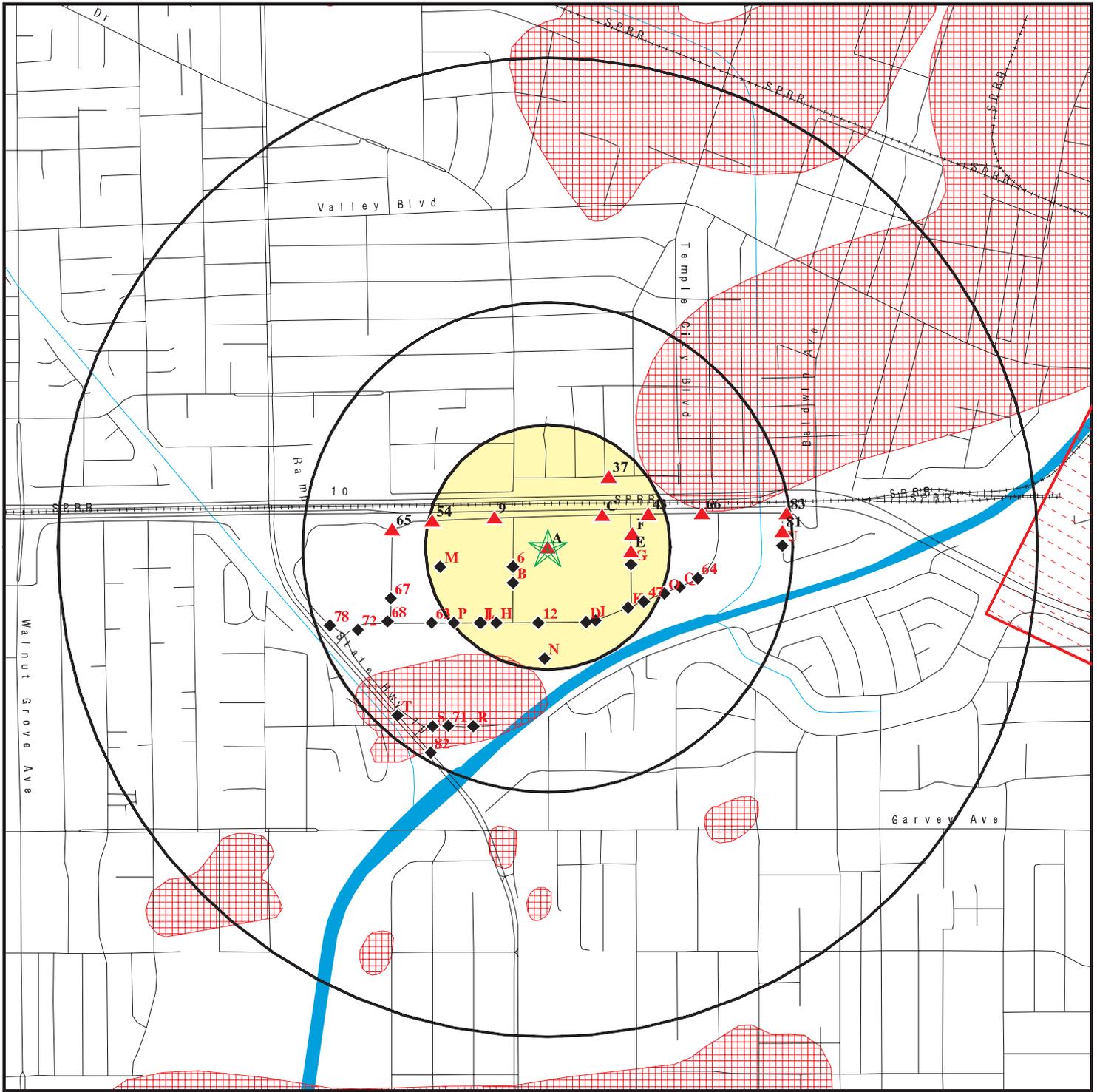
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HUGUENY A F	3450 FLETCHER AVE	E 1/8 - 1/4 (0.172 mi.)	E25	62

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
7865 SANTA ANA CANYON RD	CHMIRS, San Bern. Co. Permit
1X MCKESSON DRUG CO	HAZNET, LUST, CHMIRS
ARROWHEAD SP CH/CONF CNTR	CHMIRS, UST, San Bern. Co. Permit
U.S. SAFETY & SUPPLY CO./ZEE MANAG	LUST
BISHOP CREEK HYDRO PLANT #4	HIST UST
BOREL GENERATING STATION	HIST UST
VAUTHERINE, THEO. L.-EL MONTE	WMUDS/SWAT
TELSTAR BUSINESS PARK	SLIC
WELLS FARGO BANK	SLIC
FLETCHER AVIATION	WIP

# OVERVIEW MAP - 02465694.2r



- ★ 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
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone

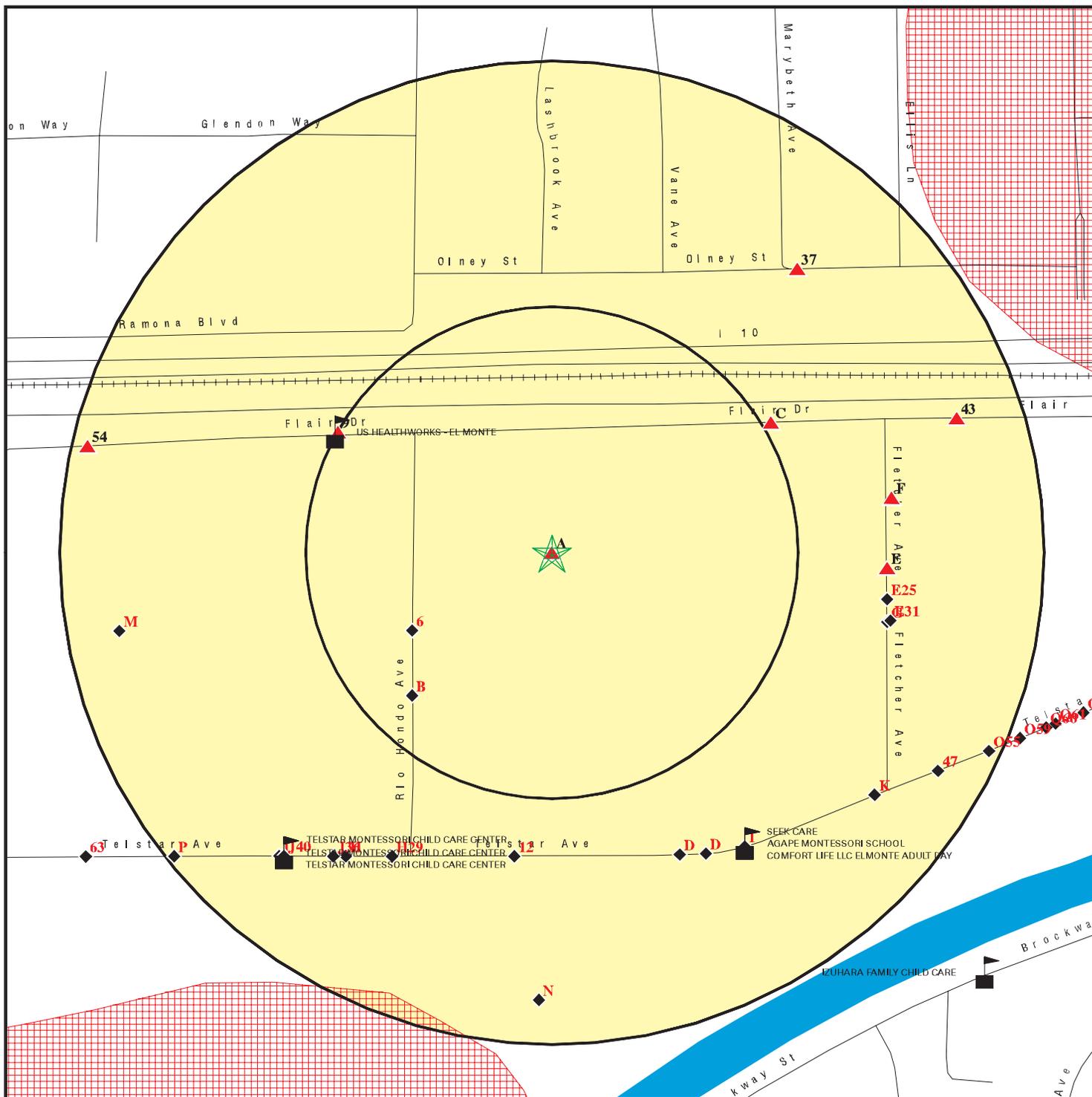
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sargent Fletcher, Inc.  
 ADDRESS: 9400 Flair Drive  
 EI Monte CA 91731  
 LAT/LONG: 34.0711 / 118.0632

CLIENT: ERM - West, Inc.  
 CONTACT: Simon Mendum  
 INQUIRY #: 02465694.2r  
 DATE: April 13, 2009 1:32 pm

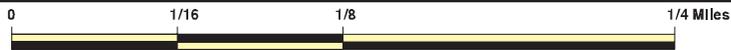
# DETAIL MAP - 02465694.2r



- ★ 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
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone

- Areas of Concern



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sargent Fletcher, Inc.  
 ADDRESS: 9400 Flair Drive  
 El Monte CA 91731  
 LAT/LONG: 34.0711 / 118.0632

CLIENT: ERM - West, Inc.  
 CONTACT: Simon Mendum  
 INQUIRY #: 02465694.2r  
 DATE: April 13, 2009 1:32 pm

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 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	1	NR	1
Proposed NPL		1.000	0	0	0	0	NR	0
NPL LIENS		TP	NR	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>								
CERCLIS		0.500	0	0	0	NR	NR	0
<b><i>Federal CERCLIS NFRAP site List</i></b>								
CERC-NFRAP		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	X	0.250	0	0	NR	NR	NR	0
RCRA-SQG		0.250	0	9	NR	NR	NR	9
RCRA-CESQG		0.250	0	0	NR	NR	NR	0
<b><i>Federal institutional controls / engineering controls registries</i></b>								
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		TP	NR	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent NPL</i></b>								
RESPONSE		1.000	0	0	1	0	NR	1
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
AOCONCERN		1.000	0	1	0	0	NR	1
ENVIROSTOR		1.000	0	0	1	0	NR	1
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
SWF/LF		0.500	0	0	0	NR	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
LUST	X	0.500	0	1	1	NR	NR	2
SLIC	X	0.500	2	20	22	NR	NR	44

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 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
<b>State and tribal registered storage tank lists</b>								
UST		0.250	0	2	NR	NR	NR	2
AST		0.250	0	0	NR	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
<b>State and tribal voluntary cleanup sites</b>								
INDIAN VCP		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
ODI		0.500	0	0	0	NR	NR	0
DEBRIS REGION 9		0.500	0	0	0	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
HAULERS		TP	NR	NR	NR	NR	NR	0
INDIAN ODI		0.500	0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US CDL		TP	NR	NR	NR	NR	NR	0
HIST Cal-Sites		1.000	0	0	0	0	NR	0
SCH		0.250	0	0	NR	NR	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
AOCONCERN		1.000	0	1	0	0	NR	1
CDL		TP	NR	NR	NR	NR	NR	0
<b>Local Lists of Registered Storage Tanks</b>								
CA FID UST	X	0.250	0	2	NR	NR	NR	2
HIST UST	X	0.250	1	4	NR	NR	NR	5
SWEEPS UST	X	0.250	0	4	NR	NR	NR	4
<b>Local Land Records</b>								
LIENS 2		TP	NR	NR	NR	NR	NR	0
LUCIS		0.500	0	0	0	NR	NR	0
LIENS		TP	NR	NR	NR	NR	NR	0
DEED		0.500	0	0	0	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS		TP	NR	NR	NR	NR	NR	0
CHMIRS		TP	NR	NR	NR	NR	NR	0
LDS		TP	NR	NR	NR	NR	NR	0
MCS		TP	NR	NR	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b><i>Other Ascertainable Records</i></b>								
RCRA-NonGen		0.250	0	2	NR	NR	NR	2
DOT OPS		TP	NR	NR	NR	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	1	NR	1
ROD		1.000	0	0	0	1	NR	1
UMTRA		0.500	0	0	0	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
HIST FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
RADINFO		TP	NR	NR	NR	NR	NR	0
FINDS	X	TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
CA BOND EXP. PLAN		1.000	0	0	0	0	NR	0
CA WDS	X	TP	NR	NR	NR	NR	NR	0
Cortese		0.500	0	0	1	NR	NR	1
Notify 65		1.000	0	0	1	0	NR	1
LA Co. Site Mitigation	X	TP	NR	NR	NR	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
LOS ANGELES CO. HMS	X	TP	NR	NR	NR	NR	NR	0
WIP	X	0.250	2	24	NR	NR	NR	26
HAZNET	X	TP	NR	NR	NR	NR	NR	0
EMI	X	TP	NR	NR	NR	NR	NR	0
INDIAN RESERV		1.000	0	0	0	0	NR	0
SCRD DRYCLEANERS		0.500	0	0	0	NR	NR	0
<b><u>EDR PROPRIETARY RECORDS</u></b>								
<b><i>EDR Proprietary Records</i></b>								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		0.250	0	1	NR	NR	NR	1
EDR Historical Cleaners		0.250	0	0	NR	NR	NR	0

**NOTES:**

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A1**  
**Target**  
**Property**

**SARGENT FLETCHER INC.**  
**9400 EAST FLAIR DRIVE**  
**EL MONTE, CA 91731**

**Site 1 of 5 in cluster A**

**Actual:**  
**260 ft.**

**FINDS** 1000233728  
**HAZNET** CAD008322737  
**RCRA-LQG**  
**LA Co. Site Mitigation**  
**CA FID UST**  
**LOS ANGELES CO. HMS**  
**EMI**  
**SWEEPS UST**

**FINDS:**

Other Pertinent Environmental Activity Identified at Site

Registry ID: 110000781967

California - Hazardous Waste Tracking System - Datamart

TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**HAZNET:**

Gepaid: CAD008322737  
Contact: DAVINDER S. CHAWLA, EHS MGR  
Telephone: 6264022195  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 9400 E FLAIR DR  
Mailing City,St,Zip: EL MONTE, CA 917312909  
Gen County: Los Angeles  
TSD EPA ID: CAD008302903  
TSD County: Los Angeles  
Waste Category: Other organic solids  
Disposal Method: Transfer Station  
Tons: 0.05  
Facility County: Los Angeles

Gepaid: CAD008322737  
Contact: SARGENT FLETCHER INC  
Telephone: 0000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 9400 E FLAIR DR  
Mailing City,St,Zip: EL MONTE, CA 917310000  
Gen County: Los Angeles  
TSD EPA ID: CAD008252405  
TSD County: Los Angeles

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SARGENT FLETCHER INC. (Continued)**

**1000233728**

Waste Category: Other inorganic solid waste  
Disposal Method: Recycler  
Tons: 0.6  
Facility County: Los Angeles

Gepaid: CAD008322737  
Contact: SARGENT FLETCHER INC  
Telephone: 0000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 9400 E FLAIR DR  
Mailing City,St,Zip: EL MONTE, CA 917310000  
Gen County: Los Angeles  
TSD EPA ID: CAD008252405  
TSD County: Los Angeles  
Waste Category: Unspecified organic liquid mixture  
Disposal Method: Recycler  
Tons: 0.417  
Facility County: Los Angeles

Gepaid: CAD008322737  
Contact: SARGENT FLETCHER INC  
Telephone: 0000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 9400 E FLAIR DR  
Mailing City,St,Zip: EL MONTE, CA 917310000  
Gen County: Los Angeles  
TSD EPA ID: CAD008252405  
TSD County: Los Angeles  
Waste Category: Other organic solids  
Disposal Method: Recycler  
Tons: 0.2  
Facility County: Los Angeles

Gepaid: CAD008322737  
Contact: SARGENT FLETCHER INC  
Telephone: 0000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 9400 E FLAIR DR  
Mailing City,St,Zip: EL MONTE, CA 917310000  
Gen County: Los Angeles  
TSD EPA ID: CAD008252405  
TSD County: Los Angeles  
Waste Category: Liquids with chromium (VI) > 500 mg/l  
Disposal Method: Recycler  
Tons: 0.2085  
Facility County: Los Angeles

[Click this hyperlink](#) while viewing on your computer to access 90 additional CA\_HAZNET: record(s) in the EDR Site Report.

**RCRA-LQG:**

Date form received by agency: 02/28/2006  
Facility name: SARGENT FLETCHER INC.  
Facility address: 9400 EAST FLAIR DRIVE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SARGENT FLETCHER INC. (Continued)**

**1000233728**

EPA ID: EL MONTE, CA 91731  
CAD008322737  
Contact: DAVINDER S CHAWLA  
Contact address: Not reported  
Not reported  
Contact country: Not reported  
Contact telephone: (626) 402-2195  
Contact email: DCHAWLA@SARGENTFLETCHER.COM  
EPA Region: 09  
Land type: Private  
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: SAME  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 09/01/1994  
Owner/Op end date: Not reported

Owner/operator name: COBHAM PLC  
Owner/operator address: BRICK ROAD  
WIMBORNE, DORSET,  
Owner/operator country: GB  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 09/01/1994  
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: Yes  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SARGENT FLETCHER INC. (Continued)**

**1000233728**

User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Universal Waste Summary:

Waste type: Batteries  
Accumulated waste on-site: No  
Generated waste on-site: No

Waste type: Lamps  
Accumulated waste on-site: No  
Generated waste on-site: No

Waste type: Pesticides  
Accumulated waste on-site: No  
Generated waste on-site: No

Waste type: Thermostats  
Accumulated waste on-site: No  
Generated waste on-site: No

Historical Generators:

Date form received by agency: 02/17/2004  
Facility name: SARGENT FLETCHER INC.  
Classification: Large Quantity Generator

Date form received by agency: 02/28/2002  
Facility name: SARGENT FLETCHER INC.  
Classification: Large Quantity Generator

Date form received by agency: 10/12/2000  
Facility name: SARGENT FLETCHER INC.  
Classification: Large Quantity Generator

Date form received by agency: 03/04/1999  
Facility name: SARGENT FLETCHER INC.  
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996  
Facility name: SARGENT FLETCHER INC.  
Site name: SARGENT FLETCHER INC  
Classification: Large Quantity Generator

Date form received by agency: 02/15/1996  
Facility name: SARGENT FLETCHER INC.  
Classification: Large Quantity Generator

Date form received by agency: 09/26/1994  
Facility name: SARGENT FLETCHER INC.  
Site name: SARGENT FLETCHER INC  
Classification: Large Quantity Generator

Date form received by agency: 03/31/1994

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SARGENT FLETCHER INC. (Continued)**

**1000233728**

Facility name: SARGENT FLETCHER INC.  
Site name: SARGENT FLETCHER COMPANY  
Classification: Large Quantity Generator

Date form received by agency: 10/23/1992

Facility name: SARGENT FLETCHER INC.  
Site name: SARGENT-FLETCHER COMPANY#  
Classification: Large Quantity Generator

Date form received by agency: 06/18/1990

Facility name: SARGENT FLETCHER INC.  
Site name: SARGENT FLETCHER COMPANY#  
Classification: Large Quantity Generator

**Hazardous Waste Summary:**

Waste code: 135  
Waste name: 135

Waste code: 181  
Waste name: 181

Waste code: 212  
Waste name: 212

Waste code: 214  
Waste name: 214

Waste code: 221  
Waste name: 221

Waste code: 223  
Waste name: 223

Waste code: 331  
Waste name: 331

Waste code: 352  
Waste name: 352

Waste code: 461  
Waste name: 461

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002  
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SARGENT FLETCHER INC. (Continued)**

**1000233728**

THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D005  
Waste name: BARIUM

Waste code: D007  
Waste name: CHROMIUM

Biennial Reports:

Last Biennial Reporting Year: 2005

Annual Waste Handled:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Amount (Lbs): 33544

Waste code: D002  
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Amount (Lbs): 653

Waste code: D005  
Waste name: BARIUM  
Amount (Lbs): 1085

Waste code: D007  
Waste name: CHROMIUM  
Amount (Lbs): 5782

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 01/27/2004  
Date achieved compliance: 02/27/2004  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 01/27/2004  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SARGENT FLETCHER INC. (Continued)**

**1000233728**

Evaluation Action Summary:

Evaluation date: 01/27/2004  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 02/27/2004  
Evaluation lead agency: State Contractor/Grantee

LA Co. Site Mitigation:

Facility ID: FA0010777  
Site ID: SD0012041  
Case ID: RO0012041  
Abated: Yes  
Assigned To: Not reported  
Entered Date: 05/11/2004  
Abated Date: 08/21/1996

CA FID UST:

Facility ID: 19003209  
Regulated By: UTNKA  
Regulated ID: 00017490  
Cortese Code: Not reported  
SIC Code: Not reported  
Facility Phone: 8180000000  
Mail To: Not reported  
Mailing Address: 9400 E FLAIR DR  
Mailing Address 2: Not reported  
Mailing City,St,Zip: EL MONTE  
Contact: Not reported  
Contact Phone: Not reported  
DUNs Number: Not reported  
NPDES Number: Not reported  
EPA ID: Not reported  
Comments: Not reported  
Status: Active

LOS ANGELES CO. HMS:

Region: LA  
Facility Id: 009277-009078  
Facility Status: Removed  
Area: 3C  
Permit Number: 00000048T  
Permit Status: Removed  
Facility Type: T0

EMI:

Year: 1987  
County Code: 19  
Air Basin: SC  
Facility ID: 15549  
Air District Name: SC  
SIC Code: 3728  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 72  
Reactive Organic Gases Tons/Yr: 71

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SARGENT FLETCHER INC. (Continued)**

**1000233728**

Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0
Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	15549
Air District Name:	SC
SIC Code:	3728
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	35
Reactive Organic Gases Tons/Yr:	34
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	3
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0
Year:	1993
County Code:	19
Air Basin:	SC
Facility ID:	15549
Air District Name:	SC
SIC Code:	3728
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	12
Reactive Organic Gases Tons/Yr:	10
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0
Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	15549
Air District Name:	SC
SIC Code:	3728
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	12
Reactive Organic Gases Tons/Yr:	10
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SARGENT FLETCHER INC. (Continued)**

**1000233728**

Year: 1996  
County Code: 19  
Air Basin: SC  
Facility ID: 103888  
Air District Name: SC  
SIC Code: 3728  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1997  
County Code: 19  
Air Basin: SC  
Facility ID: 103888  
Air District Name: SC  
SIC Code: 3728  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 2  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1998  
County Code: 19  
Air Basin: SC  
Facility ID: 103888  
Air District Name: SC  
SIC Code: 3728  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 2  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1999  
County Code: 19  
Air Basin: SC  
Facility ID: 103888  
Air District Name: SC  
SIC Code: 3728

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SARGENT FLETCHER INC. (Continued)**

**1000233728**

Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 2  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2000  
County Code: 19  
Air Basin: SC  
Facility ID: 103888  
Air District Name: SC  
SIC Code: 3728  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 2  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2001  
County Code: 19  
Air Basin: SC  
Facility ID: 103888  
Air District Name: SC  
SIC Code: 3720  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Y  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 2  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2002  
County Code: 19  
Air Basin: SC  
Facility ID: 103888  
Air District Name: SC  
SIC Code: 3728  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 6  
Reactive Organic Gases Tons/Yr: 5  
Carbon Monoxide Emissions Tons/Yr: 0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SARGENT FLETCHER INC. (Continued)**

**1000233728**

NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2003  
County Code: 19  
Air Basin: SC  
Facility ID: 103888  
Air District Name: SC  
SIC Code: 3728  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 6  
Reactive Organic Gases Tons/Yr: 5  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2004  
County Code: 19  
Air Basin: SC  
Facility ID: 103888  
Air District Name: SC  
SIC Code: 3728  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Y  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 6.02263  
Reactive Organic Gases Tons/Yr: 4.91  
Carbon Monoxide Emissions Tons/Yr: 0.08864  
NOX - Oxides of Nitrogen Tons/Yr: 0.306  
SOX - Oxides of Sulphur Tons/Yr: 0.001946  
Particulate Matter Tons/Yr: 0.0178523  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0.02

Year: 2005  
County Code: 19  
Air Basin: SC  
Facility ID: 103888  
Air District Name: SC  
SIC Code: 3728  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 2.696  
Reactive Organic Gases Tons/Yr: 2.597279  
Carbon Monoxide Emissions Tons/Yr: .32  
NOX - Oxides of Nitrogen Tons/Yr: .381  
SOX - Oxides of Sulphur Tons/Yr: .00229  
Particulate Matter Tons/Yr: .029115  
Part. Matter 10 Micrometers & Smlr Tons/Yr: .0291104

Year: 2006

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SARGENT FLETCHER INC. (Continued)**

**1000233728**

County Code: 19  
Air Basin: SC  
Facility ID: 103888  
Air District Name: SC  
SIC Code: 3728  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1.183259580814161155  
Reactive Organic Gases Tons/Yr: .824  
Carbon Monoxide Emissions Tons/Yr: .294  
NOX - Oxides of Nitrogen Tons/Yr: .35  
SOX - Oxides of Sulphur Tons/Yr: .002  
Particulate Matter Tons/Yr: .027  
Part. Matter 10 Micrometers & Smllr Tons/Yr: .027

**SWEEPS UST:**

Status: A  
Comp Number: 9078  
Number: 9  
Board Of Equalization: 44-008288  
Ref Date: 06-30-89  
Act Date: Not reported  
Created Date: 06-30-89  
Tank Status: A  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-000-009078-000001  
Actv Date: 06-30-89  
Capacity: Not reported  
Tank Use: UNKNOWN  
Stg: W  
Content: Not reported  
Number Of Tanks: 2

Status: A  
Comp Number: 9078  
Number: 9  
Board Of Equalization: 44-008288  
Ref Date: 06-30-89  
Act Date: Not reported  
Created Date: 06-30-89  
Tank Status: A  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-000-009078-000002  
Actv Date: 06-30-89  
Capacity: Not reported  
Tank Use: UNKNOWN  
Stg: W  
Content: Not reported  
Number Of Tanks: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A2**  
**Target**  
**Property**

**SARGENT-FLETCHER CO.**  
**9400 FLAIR DR.**  
**EL MONTE, CA 91731**

**SLIC** **S106484543**  
**N/A**

**Site 2 of 5 in cluster A**

**Actual:**  
**260 ft.**

**SLIC:**  
Region: STATE  
**Facility Status:** **Open - Site Assessment**  
Status Date: 1988-04-22 00:00:00  
Global Id: SL603798729  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 34.0733024040698  
Longitude: -118.030536434801  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.0325  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

**A3**  
**Target**  
**Property**

**SARGENT FLETCHER CO.**  
**9400 FLAIR DR E**  
**EL MONTE, CA 91731**

**LUST** **S101296132**  
**N/A**

**Site 3 of 5 in cluster A**

**Actual:**  
**260 ft.**

**LUST:**  
Region: STATE  
Global Id: T0603792959  
Latitude: 34.071863  
Longitude: -118.064233  
Case Type: LUST Cleanup Site  
Status: Open - Site Assessment  
Status Date: 1991-08-15 00:00:00  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Case Worker: Not reported  
Local Agency: LOS ANGELES COUNTY  
RB Case Number: 107.0325  
LOC Case Number: Not reported  
File Location: Not reported  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminats of Concern: \* Solvents  
Site History: Not reported

**LUST REG 4:**

Region: 4  
Regional Board: 04  
County: Los Angeles  
facid: 107.0325  
Status: Preliminary site assessment underway  
Substance: Solvents  
Substance Quantity: Not reported  
Local Case No: Not reported  
Case Type: Groundwater  
Abatement Method Used at the Site: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SARGENT FLETCHER CO. (Continued)**

**S101296132**

Global ID: T0603792959  
W Global ID: Not reported  
Staff: WIP  
Local Agency: 19000  
Cross Street: ROSEMEAD BLVD  
Enforcement Type: Not reported  
Date Leak Discovered: 2/14/1991  
Date Leak First Reported: 8/15/1991  
Date Leak Record Entered: 8/24/1991  
Date Confirmation Began: Not reported  
Date Leak Stopped: 2/14/1991  
Date Case Last Changed on Database: 11/3/1997  
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: LAWS, RUSS  
Water System: Not reported  
Well Name: Not reported  
Approx. Dist To Production Well (ft): 377.44101743454382398059975236  
Source of Cleanup Funding: UNK  
Preliminary Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: 8/15/1991  
Pollution Characterization Began: Not reported  
Remediation Plan Submitted: Not reported  
Remedial Action Underway: Not reported  
Post Remedial Action Monitoring Began: Not reported  
Enforcement Action Date: Not reported  
Historical Max MTBE Date: Not reported  
Hist Max MTBE Conc in Groundwater: Not reported  
Hist Max MTBE Conc in Soil: Not reported  
Significant Interim Remedial Action Taken: Not reported  
GW Qualifier: Not reported  
Soil Qualifier: Not reported  
Organization: Not reported  
Owner Contact: Not reported  
Responsible Party: SARGENT FLETCHER CO.  
RP Address: Not reported  
Program: SLIC  
Lat/Long: 34.071863 / -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: CONSULTANT SEND REPORTS TO WIP-SG (APC) WORK IN PROGRESS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A4** **FLETCHER AVIATION (DEST)**  
**Target** **9400 E RAMONA BLVD**  
**Property** **EL MONTE, CA**

**LOS ANGELES CO. HMS** **U003057761**  
**N/A**

**Site 4 of 5 in cluster A**

**Actual:** LOS ANGELES CO. HMS:  
**260 ft.** Region: LA  
Facility Id: 001321-I01384  
Facility Status: Closed  
Area: 3C  
Permit Number: 944  
Permit Status: Closed  
Facility Type: I00

**A5** **SARGENT-FLETCHER CO.**  
**Target** **9400 FLAIR DR**  
**Property** **EL MONTE, CA 91731**

**HIST UST** **U001569382**  
**WIP** **N/A**  
**CA WDS**

**Site 5 of 5 in cluster A**

**Actual:** HIST UST:  
**260 ft.** Region: STATE  
Facility ID: 00000017490  
Facility Type: Other  
Other Type: MANUFACTURE  
Total Tanks: 0006  
Contact Name: JOHN FETTERS  
Telephone: 8184437171  
Owner Name: SARGENT-FLETCHER CO.  
Owner Address: 9400 E. FLAIR DRIVE  
Owner City,St,Zip: EL MONTE, CA 91731

Tank Num: 001  
Container Num: 3  
Year Installed: 1971  
Tank Capacity: 00010000  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: Pressure Test

Tank Num: 002  
Container Num: 1  
Year Installed: 1971  
Tank Capacity: 00001000  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: Pressure Test

Tank Num: 003  
Container Num: 2  
Year Installed: 1971  
Tank Capacity: 00010000  
Tank Used for: PRODUCT  
Type of Fuel: PREMIUM  
Tank Construction: Not reported  
Leak Detection: Pressure Test

Map ID  
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Distance  
Elevation

MAP FINDINGS

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Database(s)

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EPA ID Number

**SARGENT-FLETCHER CO. (Continued)**

**U001569382**

Tank Num: 004  
Container Num: 4  
Year Installed: Not reported  
Tank Capacity: 00010000  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: Pressure Test

Tank Num: 005  
Container Num: 5  
Year Installed: 1971  
Tank Capacity: 00010000  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: Pressure Test

Tank Num: 006  
Container Num: 6  
Year Installed: 1971  
Tank Capacity: 00010000  
Tank Used for: PRODUCT  
Type of Fuel: REGULAR  
Tank Construction: Not reported  
Leak Detection: Pressure Test

**WIP:**

Region: 4  
File Number: 107.0325  
**File Status: Backlog**  
Staff: UNIDENTIFIED  
Facility Suite: Not reported

**CA WDS:**

Facility ID: 4 19I003860  
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: 6265802157  
Facility Contact: Robert Reiss  
Agency Name: SARGENT-FLETCHER CO.  
Agency Address: Not reported  
Agency City,St,Zip: 0  
Agency Contact: Not reported  
Agency Telephone: Not reported  
Agency Type: Private  
SIC Code: 3728  
SIC Code 2: Not reported  
Primary Waste: Stormwater Runoff  
Primary Waste Type: Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD,

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MAP FINDINGS

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**SARGENT-FLETCHER CO. (Continued)**

**U001569382**

Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in 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 facility is not a POTW.  
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.

**SSW  
1/8-1/4  
1260 ft.**

**SAN GABRIEL VALLEY  
LOS ANGELES (County), CA**

**AOCONCERN CCA000001  
N/A**

**Additional polygons located at: SSW 4490 ft.; SW 4376 ft.; South 3673 ft.**

AOCONCERN:  
area where VOC contamination is at or above the MCL as designated by region 9 EPA office

**NPL  
Region  
East  
1/2-1  
4782 ft.**

**SAN GABRIEL VALLEY (AREA 1)  
PECK RD & REAL  
EL MONTE, CA 91733**

**CERCLIS 1000114959  
FINDS CAD980677355  
NPL  
CONSENT  
ROD  
US ENG CONTROLS**

CERCLIS:  
Site ID: 0901951  
Federal Facility: Not a Federal Facility  
NPL Status: Currently on the Final NPL  
Non NPL Status: Not reported

CERCLIS Site Contact Name(s):  
Contact Name: BRAD SHIPLEY  
Contact Tel: (415) 972-3011  
Contact Title: On-Scene Coordinator (OSC)

Contact Name: Patricia Bowlin  
Contact Tel: (415) 972-3177  
Contact Title: Remedial Project Manager (RPM)

Contact Name: Lisa Hanusiak  
Contact Tel: (415) 972-3152

Map ID  
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MAP FINDINGS

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**SAN GABRIEL VALLEY (AREA 1) (Continued)**

**1000114959**

Contact Title: Remedial Project Manager (RPM)

Contact Name: Roberto Rodriguez  
Contact Tel: (415) 972-3302  
Contact Title: Remedial Project Manager (RPM)

Contact Name: Bella Dizon  
Contact Tel: (415) 972-3190  
Contact Title: Remedial Project Manager (RPM)

Contact Name: Dawn Richmond  
Contact Tel: (415) 972-3097  
Contact Title: Site Assessment Manager (SAM)

Contact Name: Karen Jurist  
Contact Tel: (415) 972-3219  
Contact Title: Site Assessment Manager (SAM)

Contact Name: Jeff Inglis  
Contact Tel: (415) 972-3095  
Contact Title: Site Assessment Manager (SAM)

**CERCLIS Site Alias Name(s):**

Alias Name: SAN GABRIEL VALLEY (AREA 1)  
Alias Address: PECK RD & REAL  
EL MONTE, CA 91733

Site Description: The San Gabriel Valley has been the subject of environmental investigation since 1979 when groundwater contaminated with volatile organic compounds (VOCs) was first identified. Subsequent investigation by EPA and others revealed the extent of groundwater contamination in the aquifers of the San Gabriel Valley (the San Gabriel Valley groundwater system is known as the San Gabriel Basin). In May 1984, four broad areas of contamination within the basin were listed as San Gabriel Areas 1 through 4 on EPA's National Priorities List (NPL). The WNOU is officially part of the San Gabriel Valley Area 1 Superfund Site. EPA subsequently divided the basin into eight operable units (OUs) to provide a means of planning remedial activities in the basin. The term "Operable Unit" (OU) is used to define a discrete action that is an incremental step toward a comprehensive site remedy. Operable units may address certain geographic areas, specific site problems, initial phases of a remedy, or a set of actions over time. The WNOU is one of eight OUs within the San Gabriel Valley Superfund Site. The other OUs identified by EPA are Alhambra, Baldwin Park, El Monte, Puente Valley, Richwood, South El Monte and Suburban. The groundwater contamination in the San Gabriel Basin results from the historic use and improper handling and disposal of tetrachloroethene (PCE), trichloroethene (TCE), and other chemicals. These chemicals were used in large quantities at industrial facilities across much of the San Gabriel Valley as early as the 1940s, and by hundreds of businesses in the 1960s, 1970s and 1980s for degreasing, metal cleaning, and other purposes. The chemicals were probably released to the ground by a combination of disposal, careless handling, leaking tanks and pipes, and other means. EPA conducted Remedial Investigation/Feasibility Study (RI/FS) activities in the WNOU beginning in the late 1980s. The RI/FS approach is a methodology that the Superfund program has established for characterizing the nature and extent of risks posed by uncontrolled hazardous waste sites to evaluate potential remedial options. The RI serves as a mechanism to collect data for site characterization. The FS serves as the mechanism for development, screening, and evaluation of potential remedial alternatives. An Operable Unit Feasibility Study (OUFS) Report for the

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**SAN GABRIEL VALLEY (AREA 1) (Continued)**

**1000114959**

WNOU was completed and issued for public review in September 1992 (EPA, 1992b). At that time, contaminant concentrations were low and posed a minimal threat to human health and groundwater supplies in the Central Basin. In March 1993, EPA issued a ROD that called for installation of wells and additional sampling to supplement the existing groundwater monitoring program. For several years, contaminant concentrations were relatively low throughout Whittier Narrows and groundwater resources in the Central Basin were not threatened. However, in the last few years, contaminated groundwater from upgradient areas has been migrating into the western side of Whittier Narrows causing significant increases in contaminant concentrations. The increases in contaminant concentrations suggest an imminent threat to groundwater resources in the Central Basin. This threat prompted EPA to initiate additional data collection activities and evaluation of active remedial actions. In 1997, EPA initiated additional groundwater monitoring and further characterization of the hydrogeology in western Whittier Narrows. Since then, nineteen new monitoring wells were installed. In addition, large-scale aquifer tests were conducted using City of Whittier, Pico Rivera, and Texaco production wells (EPA, 1997b). Results of EPA's recent investigations in Whittier Narrows are presented in the Site Characterization Report for Whittier Narrows (EPA, 1998a). An FS Addendum was performed for the WNOU in 1998. The FS identified remedial action objectives, assembled remedial alternatives, and provided an evaluation of the alternatives with nine evaluation criteria that EPA established. EPA issued the Final FS Addendum Report (EPA, 1998b) and a Proposed Plan in October 1998. Groundwater contamination in the San Gabriel Valley was discovered in 1979. In 1984, the EPA added four portions of the San Gabriel Valley to the national Superfund list. The El Monte OU is officially part of the San Gabriel Valley Area 1 Superfund site. Investigations by the EPA and others revealed the large extent of groundwater contamination in the El Monte OU and the San Gabriel Valley. During the past 20 years, numerous water supply wells throughout the San Gabriel Valley have been found to be contaminated with chlorinated solvents and other VOCs. In response to the contamination, water companies have shut down contaminated wells, installed new treatment facilities, and taken other steps to ensure that they can continue to supply water meeting State and Federal drinking water standards for VOCs. In 1998, the Northwest El Monte Community Task Force ("NEMCTF"), a group of fifteen parties considered potentially responsible for contamination of groundwater (Potentially Responsible Parties or "PRPs") in the El Monte area, completed the remedial investigation/feasibility study ("RI/FS") for the El Monte OU of the San Gabriel Valley Superfund sites. The remedial investigation determined that PCE, TCE, and other volatile organic compounds were contaminating the shallow and deep groundwater aquifers in a ten-square-mile area of the San Gabriel Valley around El Monte. Businesses in El Monte and surrounding areas had used these chemicals for degreasing, metal cleaning, and other purposes, and had probably released them to the ground through a combination of on-site disposal, careless handling, leaking pipes, and other means. The study found that the uppermost, or shallow, aquifer includes most of the known sources of the groundwater contamination. VOC contaminant concentrations in portions of the shallow aquifer are hundreds of times drinking water standards. In the deep aquifer, VOC contaminant concentrations are lower but still exceed drinking water standards. The NEMCTF has since continued to install and sample monitoring, extraction, and compliance wells, model the groundwater aquifers, and evaluate options for discharging treated groundwater, all in order to prepare for the implementation of cleanup work. The San Gabriel Valley encompasses a basin that is approximately 170 square miles. Groundwater in the San Gabriel Basin is the primary drinking water source for more than one million people. Regional groundwater contamination by volatile organic compounds (VOCs) prompted the Environmental Protection Agency (EPA) to

**SAN GABRIEL VALLEY (AREA 1) (Continued)**

**1000114959**

place the San Gabriel Valley on the National Priorities List (NPL) in 1984. EPA has identified several Operable Units (OUs) at the San Gabriel Valley Superfund Site. These are the El Monte OU, Baldwin Park OU, Alhambra OU, Puente Valley OU, Richwood OU, South El Monte OU, Suburban OU, and Whittier Narrows OU. El Monte Operable Unit (OU1): The El Monte OU is part of the San Gabriel Valley Superfund Site Area 1, located in eastern Los Angeles County, California. The OU covers approximately 10 square miles in the south central portion of the San Gabriel Basin. The El Monte OU is generally bounded by the San Bernardino Freeway on the south, Rosemead Boulevard on the west, and Santa Anita Avenue and the Rio Hondo on the east. The El Monte OU is highly developed and lies within the cities of El Monte, Rosemead, and Temple City. Most of the area is zoned for residential use and is likely to remain residential. Industrial activity in the El Monte OU is primarily concentrated in the central portion of the OU. EPA began its enforcement efforts in the El Monte OU in 1985 by searching historical federal, state, and local records for evidence of chemical usage, handling, and disposal in the El Monte OU area. At approximately the same time, the Regional Water Quality Control Board (RWQCB) initiated its Well Investigation Program (WIP) to identify sources of groundwater contamination. In 1989, EPA entered into a cooperative agreement with the RWQCB to expand the WIP program, to assist EPA in determining the nature and extent of the sources of groundwater contamination in the San Gabriel Valley, and to identify responsible parties. From 1990 to 1994, EPA sent General Notice of Liability letters to approximately 40 entities in and around the El Monte OU area. In October 1994, EPA sent Special Notice letter to potentially responsible parties (PRPs), requesting that these parties present a good faith offer to perform the remedial investigation/feasibility study (RI/FS) for the El Monte OU. Fifteen of these PRPs formed the Northwest El Monte Community Task Force (NEMCTF) and in March 1995 entered into an Administrative Order on Consent (AOC) with EPA to conduct the RI/FS. In May 1995, EPA issued a Unilateral Administrative Order (UAO) to one PRP, Crown City Plating, that failed to present a good faith offer. Crown City Plating completed the activities that the UAO required in 1997, and the NEMCTF completed the RI/FS in July 1998. An Interim Record of Decision (ROD) addressing the El Monte OU was completed in June 1999. This ROD calls for pumping the VOC-contaminated groundwater from two aquifers beneath the El Monte OU and treating it to remove the contaminants. More specifically, the plan calls for the construction and operation of groundwater extraction wells, treatment facilities, and conveyance facilities capable of pumping and treating approximately 1,325 and 330 gallons per minute of VOC-contaminated groundwater from the deep and shallow aquifers, respectively. The plan will require construction of new wells and treatment facilities for the shallow aquifer. For the deep aquifer, the plan allows for the use of existing water supply wells, treatment systems, and pipelines if possible, and the construction of new facilities where needed. Final decisions on extraction rates and locations will be made during the remedial design phase of the project. After the discovery in 1997 and 1998 of perchlorate, NDMA, and 1, 4-dioxane in the Baldwin Park area, and hexavalent chromium in the San Fernando Valley approximately 10 miles northeast of the San Gabriel Valley, the Los Angeles Regional Water Quality Control Board requested that facilities in several areas of the San Gabriel Valley, including the El Monte OU, sample their groundwater monitoring wells for these "emergent chemicals." In 2000 - 2001, the NEMCTF and its members sampled selected shallow groundwater monitoring wells within areas of VOC contamination as part of the pre-design activities in the El Monte OU and tested for emergent chemicals. Perchlorate, hexavalent chromium, NDMA, and 1, 4-dioxane were detected in shallow groundwater in the El Monte OU. Maximum concentrations of perchlorate and NDMA exceed the State drinking water action levels of 4 ppb and 0.010 ppb, respectively. The maximum concentration of

**SAN GABRIEL VALLEY (AREA 1) (Continued)**

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1,4-dioxane is more than 20 times the State drinking water action level of 3 ppb. The maximum concentration of hexavalent chromium does not pose a risk to human health but exceeds the Federal standard for protection of freshwater aquatic life in inland surface waters and is of concern if treated water is discharged to surface water. Sampling of groundwater in the deep aquifer of the El Monte OU shows that perchlorate is the only one of the four constituents that has exceeded the State drinking water action level. Perchlorate was detected at a concentration of 5.9 ppb in a well that was subsequently destroyed. Perchlorate was not detected in wells downgradient of the destroyed well and thus additional treatment processes for groundwater extracted from the deep aquifer in the El Monte OU are not anticipated to be necessary at this time, but may be required in the future. EPA amended the Record of Decision to address these additional contaminants by issuing an Explanation of Significant Differences (ESD) in August 2002. After the discovery in 1997 and 1998 of perchlorate, NDMA, and 1,4-dioxane in the Baldwin Park area, and hexavalent chromium in the San Fernando Valley approximately 10 miles northeast of the San Gabriel Valley, the Los Angeles Regional Water Quality Control Board requested that facilities in several areas of the San Gabriel Valley, including the El Monte OU, sample their groundwater monitoring wells for these "emergent chemicals." In 2000 - 2001, the NEMCTF and its members sampled selected shallow groundwater monitoring wells within areas of VOC contamination as part of the pre-design activities in the El Monte OU and tested for emergent chemicals. Perchlorate, hexavalent chromium, NDMA, and 1,4-dioxane were detected in shallow groundwater in the El Monte OU. Maximum concentrations of perchlorate and NDMA exceed the State drinking water action levels of 4 ppb and 0.010 ppb, respectively. The maximum concentration of 1,4-dioxane is more than 20 times the State drinking water action level of 3 ppb. The maximum concentration of hexavalent chromium does not pose a risk to human health but exceeds the Federal standard for protection of freshwater aquatic life in inland surface waters and is of concern if treated water is discharged to surface water. Sampling of groundwater in the deep aquifer of the El Monte OU shows that perchlorate is the only one of the four constituents that has exceeded the State drinking water action level. Perchlorate was detected at a concentration of 5.9 ppb in a well that was subsequently destroyed. Perchlorate was not detected in wells downgradient of the destroyed well and thus additional treatment processes for groundwater extracted from the deep aquifer in the El Monte OU are not anticipated to be necessary at this time, but may be required in the future. In July 2001, EPA sent Special Notice letters to 27 PRPs to begin formal EPA-PRP negotiations to obtain a binding commitment from the PRPs to carry out the El Monte cleanup plan for the design, construction, and operation of the groundwater extraction, treatment, and discharge facilities specified in the El Monte OU ROD. EPA is currently negotiating this commitment, called a Consent Decree, including provisions for treatment of emergent chemicals, if warranted, with a group of El Monte OU PRPs. Because the emergent chemicals were discovered after EPA issued the El Monte OU ROD, EPA is now modifying the cleanup decision to address the emergent chemicals. The emergent chemicals may require treatment, and if so, one or more of the treatment technologies described below will be required. To the extent treatment is required for the emergent chemicals, the groundwater has to be treated to achieve the treatment levels. An Explanation of Significant Differences (ESD) was completed August 22, 2002 in order to modify the selected remedy of the ROD to include these additional treatment technologies. Operable Unit 03: Currently, there are three mutual water companies - Richwood, Rurban Homes, and Hemlock - that have no alternative water supply and have been providing their customers with water that is contaminated with PCE at concentrations above the DOHS Action Level. At present, no other organics have been found at levels above the DOHS action limits in the mutuals' wells. Mutual water companies are cooperatively owned

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

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**SAN GABRIEL VALLEY (AREA 1) (Continued)**

**1000114959**

water companies; in other words, the customers own shares in the company. Of all the water purveyors in the basin, only the three mutual water companies mentioned above (located in San Gabriel Area 1) are currently unable to supply water that has contamination levels below the EPA SNARL levels, due to lack of any alternative water supply. Consequently, EPA and the State have identified a need for initial remedial measures (IRM) to assist these water purveyors in mitigating their water contamination problem. Richwood Mutual Water Company serves approximately 204 households with water from two wells. PCE was first detected in October 1980, and since that time has been found in concentrations ranging from 12 to 92 ppb, greatly exceeding the SNARL level of 4 ppb. The most current data show PCE levels of 62 ppb for Well No. 1 (6/1/83) and 92 ppb for Well No. 2 (5/17/83). In addition to a PCE contamination problem, Richwood suffers from potential bacteriological problems and a severely deteriorated distribution system. Well No. 2 was temporarily taken out of service in May 1983, so that bacteriological problems could be eliminated by chlorination. Hemlock Mutual Water Company owns two wells and provides water to approximately 199 households. PCE was first detected in May 1982. The South Well was taken out of service in 1982, on the order of the Los Angeles County Department of Health Services (LACDHS) when a PCE level of 184 ppb was detected. The latest test results showed PCE levels of 50 ppb in the South Well (12/14/82) and 38 ppb in the North Well (4/12/83). Hemlock has considered using an activated carbon treatment system to lower PCE levels. Pilot tests of the system were performed from February through April 1983; the tests showed that PCE will be removed. Hemlock has bought the system from a vendor, but it is not yet in operation. At EPA's Region IX's request, the design of the Hemlock carbon filter system reviewed; the analysis concluded that the system was under-designed and did not include a margin of safety normally included in these systems. Rurban Homes Mutual Water Company serves approximately 290 households with water from two wells. PCE was detected first in October 1980. The latest sampling data (5/17/83) showed PCE concentrations of 1.7 and 3.7 ppb for Wells No. 1 and 2, respectively. In the past, however, PCE concentrations have ranged as high as 16 ppb for Well No. 1 and 54 ppb for Well No. 2. This latest sampling is the first time the PCE concentration in both wells has been lower than 4 ppb since contamination was detected. However, results of sampling over time have shown significant fluctuations that do not indicate either an increasing or decreasing trend and the average concentration of PCE has remained above the DOHS action level. Therefore, the recent sampling cannot be considered sufficient evidence that the PCE SNARL level has been and will continue to be met in the near future. Because these two contaminated wells are Rurban's only water supply, EPA and the State have determined that a solution to Rurban's contamination problem should also be included in initial remedial measures for San Gabriel Area 1. At the request of EPA Region IX, the Field Inspection Team (FIT) prepared a list of potentially responsible parties (PRP's) in the San Gabriel basin, for use in preparing RCRA Section 3007/CERCLA Section 104 letters. This list was based on the results of the 1980 RWQCB investigation, cited above, which identified several industries as warranting further investigation, and a review of records and the history of development in the San Gabriel basin. EPA Region IX sent 16 section 3007/104 letters to PRP's on August 19, 1983, based on an initial list provided by FIT. This initial list was based primarily on the 1980 RWQCB study which focused on San Gabriel Area 2. Consequently, only two of these initial 16 PRP's are located in the San Gabriel Area 1. After FIT provided its final list of PRP's, Region IX sent 72 additional section 3007/104 letters to PRP's in the San Gabriel basin on January 12, 1984; 31 of these PRP's were located in San Gabriel Area 1. Since no responsible parties have been identified yet in San Gabriel Area 1, it is recommended that the Trust Fund be used to finance initial remedial measures at the San Gabriel Area 1 site. Immediate action must be taken to provide an

**SAN GABRIEL VALLEY (AREA 1) (Continued)**

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uncontaminated water source for residents of El Monte served by the three mutual water companies. If parties responsible for contamination of the mutual water companies' wells are identified through the source investigation, a cost recovery action can be taken to recover Trust Fund monies used for the implementation of initial remedial measures in San Gabriel Area 1. A ROD addressing Operable Unit 03 was completed in May of 1984. OU5: Groundwater contamination in the San Gabriel Valley was discovered in 1979. In 1984, the EPA added four portions of the San Gabriel Valley to the national Superfund list. The South El Monte Operable Unit (OU) is officially part of the San Gabriel Valley Area 1 Superfund site. Investigations by the EPA and others revealed the large extent of groundwater contamination in the South El Monte OU and the San Gabriel Valley. During the past 20 years, numerous water supply wells throughout the San Gabriel Valley have been found to be contaminated with chlorinated solvents and other volatile organic compounds (VOCs). In response to the contamination, water companies have shut down contaminated wells, installed new treatment facilities, and taken other steps to ensure that they can continue to supply clean drinking water to the public. The remedial investigation/feasibility study (RI/FS) for the South El Monte OU of the San Gabriel Valley Superfund sites was funded by a group of potentially responsible parties (PRPs) for contamination of groundwater in the South El Monte area and was completed in 1999. The remedial investigation determined that tetrachloroethene (PCE), trichloroethene (TCE), and other VOCs were contaminating the shallow and intermediate depth groundwater aquifers in a fifteen-square-mile area of the San Gabriel Valley around South El Monte. Businesses in South El Monte and surrounding areas had used these chemicals for degreasing, metal cleaning, and other purposes, and had probably released them to the ground through a combination of on-site disposal, careless handling, leaking pipes, and other means. The study found that the upper most, or shallow aquifer includes most of the known sources of the groundwater contamination. VOC contaminant concentrations in portions of the shallow aquifer are hundreds of times the drinking water standards. In the intermediate aquifer, VOC contaminant concentrations are generally lower, but still exceed drinking water standards. On September 29, 2000, the EPA adopted a cleanup plan for the South El Monte OU known as the South El Monte Operable Unit Interim Record of Decision (ROD). The plan addresses the contamination described in the RI/FS. The goals of the 2000 cleanup plan are to prevent exposure of the public to VOC-contaminated groundwater, limit the movement of VOC-contaminated groundwater into clean or less contaminated areas and depths of the intermediate zone, reduce the impact of continued contaminant migration on downgradient water supply wells in the intermediate zone, and protect future uses of uncontaminated areas. In the South El Monte OU, nearly all of the shallow zone groundwater and a portion of the intermediate zone groundwater migrate south towards Whittier Narrows. As part of a separate cleanup plan (identified in the Whittier Narrows OU Interim Record of Decision Amendment, issued by EPA in November 1999), EPA has already constructed a groundwater remedy in the Whittier Narrows OU that is anticipated to capture any shallow zone and intermediate zone VOC contamination in the South El Monte OU that is migrating to the south. This leaves only the portion of the intermediate-zone VOC contamination in the northwest half of the South El Monte OU that migrates towards the west to be addressed in the South El Monte OU cleanup plan. The South El Monte OU (SEMOU) 2000 cleanup plan calls for pumping the VOC-contaminated groundwater from a portion of the intermediate aquifer beneath the South El Monte OU and treating it to remove the contaminants. More specifically, the plan allows for the use of existing water supply wells, treatment systems, and pipelines if possible, and the construction of new facilities where needed, to pump and treat approximately 10,000 gallons per minute (gpm) of VOC-contaminated groundwater from the intermediate aquifer.

MAP FINDINGS

**SAN GABRIEL VALLEY (AREA 1) (Continued)**

**1000114959**

Final decisions on extraction rates and locations will be made during the remedial design phase of the project. The 2000 Interim ROD selected a remedy that "is an interim action and is focused on controlling the migration of contamination". The EPA has installed and sampled monitoring wells and modeled the groundwater aquifers to prepare for the implementation of cleanup work for the intermediate aquifer. Water purveyors' facilities in the SEMOU have been proposed as part of the SEMOU VOC containment remedy. These facilities are: 1) San Gabriel Valley Water Company's Plant 8 production Wells b, c, and d and their associated VOC treatment facility, 2) City of Monterey Park (MP) Wells 12 and 15 and their associated VOC treatment facility, 3) MP Well 5 and its associated VOC treatment facility, and 4) Southern California Water Company (SCWC) San Gabriel Wells 1 and 2 and their associated VOC treatment facility. In addition to VOC treatment, perchlorate treatment may be required at the two MP facilities and the SCWC facility listed above. After the discovery in 1997 and 1998 of perchlorate, n-nitrosodimethylamine (NDMA), and 1,4-dioxane in the Baldwin Park area of the San Gabriel Valley, the Los Angeles Regional Water Quality Control Board requested that facilities in several areas of the San Gabriel Valley sample their groundwater monitoring wells for these newly-discovered "emergent chemicals." During the same time period, widespread testing for perchlorate was conducted in the San Gabriel Valley by water suppliers. EPA also began testing for the emergent chemicals in several areas of the San Gabriel Valley, including the South El Monte OU. Perchlorate and 1,4-dioxane were detected in the groundwater in the South El Monte OU. 1,4-dioxane was detected at concentrations more than 20 times the State drinking water advisory level of 3 ppb in the shallow aquifer in the northern and southern portions of the South El Monte OU. Concentrations of 1,4-dioxane detected in the intermediate aquifer were generally less than the State drinking water advisory level. Perchlorate detected in the groundwater in the South El Monte OU did not exceed the State drinking water advisory level of 18 micrograms per liter (ug/l) established in 1997. In early 2002 and 2004, the State issued new drinking water advisory levels for perchlorate of 4 ppb and 6 ppb respectively. Subsequently, perchlorate was detected at concentrations above the State drinking water advisory level of 6 ppb during testing of groundwater in the intermediate aquifer of the South El Monte OU. Some water purveyors' wells were impacted by perchlorate contamination, and consequently, intermediate zone groundwater pumped from these wells has to be treated for perchlorate. In some cases where the perchlorate concentration in water purveyor wells is just slightly above the State drinking water advisory level, water purveyors may be able to blend perchlorate contaminated water with clean water to meet the State drinking water advisory level. Concentrations of perchlorate in the shallow aquifer were generally less than the State drinking water advisory level and shallow zone perchlorate treatment is not needed at this time. If EPA determines containment and treatment for perchlorate in the shallow zone is necessary, this decision will be addressed in a subsequent decision document. The need for containment of 1,4-dioxane detected above State drinking water advisory level in the shallow aquifer is currently being evaluated by EPA using groundwater modeling. If EPA determines containment for 1,4-dioxane in the shallow zone is necessary, this decision will be documented in a subsequent decision document. In the intermediate aquifer, concentrations of 1,4-dioxane in the South El Monte OU are generally less than the State drinking water advisory level. Treatment for 1,4-dioxane in the intermediate aquifer is not included as part of the remedy at this time. NDMA and hexavalent chromium have also been detected in groundwater in the South El Monte OU, but do not exceed Federal or State water quality regulatory levels. Thus, additional treatment processes for NDMA and hexavalent chromium are not needed at this time. In March 2002, EPA sent Special Notice letters to 67 PRPs to begin formal EPA-PRP negotiations to obtain a binding commitment from the

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**SAN GABRIEL VALLEY (AREA 1) (Continued)**

**1000114959**

PRPs to carry out the South El Monte OU cleanup plan for the design, construction, and operation of the groundwater extraction, treatment, and discharge facilities specified in the South El Monte OU Interim ROD. EPA is currently negotiating this commitment, called a Consent Decree, with a group of South El Monte OU PRPs. Because perchlorate at concentrations above the State drinking water advisory level was discovered after EPA issued the South El Monte OU Interim ROD, EPA is now modifying the cleanup decision to address the need to potentially treat perchlorate at those portions of the Interim ROD remedy that are operating in the intermediate zone. In some cases, where the perchlorate concentration is close to the State drinking water advisory level, there may be an opportunity to blend perchlorate contaminated water with clean water to meet the State drinking water advisory level, under the purview of the California Department of Health Services. An Explanation of Significant Differences (ESD) addressing Operable Unit 5 (South El Monte) at the San Gabriel Valley - Area 1 Superfund Site was completed in November 2005.

CERCLIS Assessment History:

Action:	DISCOVERY
Date Started:	Not reported
Date Completed:	04/01/1980
Priority Level:	Not reported
Action:	ISSUE REQUEST LETTERS (104E)
Date Started:	Not reported
Date Completed:	08/01/1983
Priority Level:	Not reported
Action:	HAZARD RANKING SYSTEM PACKAGE
Date Started:	Not reported
Date Completed:	09/01/1983
Priority Level:	Not reported
Action:	PRELIMINARY ASSESSMENT
Date Started:	Not reported
Date Completed:	09/01/1983
Priority Level:	Higher priority for further assessment
Action:	SITE INSPECTION
Date Started:	03/01/1983
Date Completed:	09/01/1983
Priority Level:	Higher priority for further assessment
Action:	SITE INSPECTION
Date Started:	03/01/1983
Date Completed:	09/01/1983
Priority Level:	Higher priority for further assessment
Action:	PROPOSAL TO NATIONAL PRIORITIES LIST
Date Started:	Not reported
Date Completed:	09/08/1983
Priority Level:	Not reported
Action:	ISSUE REQUEST LETTERS (104E)
Date Started:	Not reported
Date Completed:	01/01/1984
Priority Level:	Not reported
Action:	Notice Letters Issued

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**SAN GABRIEL VALLEY (AREA 1) (Continued)**

**1000114959**

Date Started: Not reported  
Date Completed: 01/12/1984  
Priority Level: Not reported

Action: FINAL LISTING ON NATIONAL PRIORITIES LIST  
Date Started: Not reported  
Date Completed: 05/08/1984  
Priority Level: Not reported

Action: RECORD OF DECISION  
Date Started: Not reported  
Date Completed: 05/11/1984  
Priority Level: Not reported

Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
Date Started: 06/13/1983  
Date Completed: 05/11/1984  
Priority Level: Not reported

Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
Date Started: 06/13/1984  
Date Completed: Not reported  
Priority Level: Not reported

Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
Date Started: 04/01/1987  
Date Completed: Not reported  
Priority Level: Not reported

Action: RECORD OF DECISION AMENDMENT  
Date Started: Not reported  
Date Completed: 09/30/1987  
Priority Level: Not reported

Action: Notice Letters Issued  
Date Started: Not reported  
Date Completed: 11/30/1987  
Priority Level: Not reported

Action: REMEDIAL DESIGN  
Date Started: 09/30/1985  
Date Completed: 02/04/1988  
Priority Level: Not reported

Action: RECORD OF DECISION  
Date Started: Not reported  
Date Completed: 09/29/1988  
Priority Level: Not reported

Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
Date Started: 04/01/1987  
Date Completed: 09/29/1988  
Priority Level: Not reported

Action: ISSUE REQUEST LETTERS (104E)  
Date Started: Not reported  
Date Completed: 12/30/1988

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EDR ID Number  
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**SAN GABRIEL VALLEY (AREA 1) (Continued)**

**1000114959**

Priority Level:	Not reported
Action:	Notice Letters Issued
Date Started:	Not reported
Date Completed:	03/15/1989
Priority Level:	Not reported
Action:	REMEDIAL ACTION
Date Started:	05/25/1988
Date Completed:	03/29/1989
Priority Level:	Not reported
Action:	TECHNICAL ASSISTANCE
Date Started:	09/15/1989
Date Completed:	Not reported
Priority Level:	Not reported
Action:	Notice Letters Issued
Date Started:	Not reported
Date Completed:	05/07/1990
Priority Level:	Not reported
Action:	Notice Letters Issued
Date Started:	Not reported
Date Completed:	06/07/1990
Priority Level:	Not reported
Action:	ISSUE REQUEST LETTERS (104E)
Date Started:	Not reported
Date Completed:	06/08/1990
Priority Level:	Not reported
Action:	Notice Letters Issued
Date Started:	Not reported
Date Completed:	07/09/1990
Priority Level:	Not reported
Action:	REMOVAL ASSESSMENT
Date Started:	09/19/1990
Date Completed:	09/19/1990
Priority Level:	Not reported
Action:	Notice Letters Issued
Date Started:	Not reported
Date Completed:	09/20/1990
Priority Level:	Not reported
Action:	COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started:	09/30/1985
Date Completed:	09/30/1990
Priority Level:	Not reported
Action:	Notice Letters Issued
Date Started:	Not reported
Date Completed:	10/12/1990
Priority Level:	Not reported

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**SAN GABRIEL VALLEY (AREA 1) (Continued)**

**1000114959**

Action:	Notice Letters Issued
Date Started:	Not reported
Date Completed:	12/05/1990
Priority Level:	Not reported
Action:	Notice Letters Issued
Date Started:	Not reported
Date Completed:	12/06/1990
Priority Level:	Not reported
Action:	Notice Letters Issued
Date Started:	Not reported
Date Completed:	12/07/1990
Priority Level:	Not reported
Action:	Notice Letters Issued
Date Started:	Not reported
Date Completed:	02/07/1991
Priority Level:	Not reported
Action:	Notice Letters Issued
Date Started:	Not reported
Date Completed:	03/06/1991
Priority Level:	Not reported
Action:	Notice Letters Issued
Date Started:	Not reported
Date Completed:	03/15/1991
Priority Level:	Not reported
Action:	REMEDIAL DESIGN
Date Started:	09/14/1988
Date Completed:	06/13/1991
Priority Level:	Not reported
Action:	ADMINISTRATIVE RECORDS
Date Started:	06/25/1991
Date Completed:	06/25/1991
Priority Level:	Admin Record Compiled for a Remedial Event
Action:	Notice Letters Issued
Date Started:	Not reported
Date Completed:	07/03/1991
Priority Level:	Not reported
Action:	Notice Letters Issued
Date Started:	Not reported
Date Completed:	07/09/1991
Priority Level:	Not reported
Action:	REMEDIAL DESIGN
Date Started:	09/14/1988
Date Completed:	07/18/1991
Priority Level:	Not reported
Action:	Notice Letters Issued
Date Started:	Not reported

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**SAN GABRIEL VALLEY (AREA 1) (Continued)**

**1000114959**

Date Completed: 09/26/1991  
Priority Level: Not reported

Action: UNILATERAL ADMIN ORDER  
Date Started: Not reported  
Date Completed: 10/29/1991  
Priority Level: Not reported

Action: REMOVAL ASSESSMENT  
Date Started: 12/27/1991  
Date Completed: 12/27/1991  
Priority Level: Not reported

Action: RISK/HEALTH ASSESSMENT  
Date Started: Not reported  
Date Completed: 09/16/1992  
Priority Level: Not reported

Action: ECOLOGICAL RISK ASSESSMENT  
Date Started: Not reported  
Date Completed: 09/16/1992  
Priority Level: Not reported

Action: Notice Letters Issued  
Date Started: Not reported  
Date Completed: 01/12/1993  
Priority Level: Not reported

Action: Notice Letters Issued  
Date Started: Not reported  
Date Completed: 02/12/1993  
Priority Level: Not reported

Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
Date Started: 04/01/1987  
Date Completed: 03/31/1993  
Priority Level: Not reported

Action: RECORD OF DECISION  
Date Started: Not reported  
Date Completed: 03/31/1993  
Priority Level: Not reported

Action: Special Notice Issued  
Date Started: Not reported  
Date Completed: 05/26/1993  
Priority Level: Not reported

Action: RECORD OF DECISION AMENDMENT  
Date Started: Not reported  
Date Completed: 09/22/1993  
Priority Level: Not reported

Action: Special Notice Issued  
Date Started: Not reported  
Date Completed: 02/03/1994  
Priority Level: Not reported

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**SAN GABRIEL VALLEY (AREA 1) (Continued)**

**1000114959**

Action: NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH  
Date Started: 01/30/1989  
Date Completed: 07/01/1994  
Priority Level: Not reported

Action: NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH  
Date Started: 09/30/1984  
Date Completed: 07/01/1994  
Priority Level: Not reported

Action: ADMINISTRATIVE ORDER ON CONSENT  
Date Started: Not reported  
Date Completed: 03/16/1995  
Priority Level: Not reported

Action: REMEDIAL INVESTIGATION/FEASIBILITY STUDY NEGOTIATIONS  
Date Started: 10/17/1994  
Date Completed: 03/16/1995  
Priority Level: Not reported

Action: Notice Letters Issued  
Date Started: Not reported  
Date Completed: 04/13/1995  
Priority Level: Not reported

Action: Notice Letters Issued  
Date Started: Not reported  
Date Completed: 04/20/1995  
Priority Level: Not reported

Action: Notice Letters Issued  
Date Started: Not reported  
Date Completed: 05/05/1995  
Priority Level: Not reported

Action: ADMINISTRATIVE ORDER ON CONSENT  
Date Started: Not reported  
Date Completed: 05/26/1995  
Priority Level: Not reported

Action: UNILATERAL ADMIN ORDER  
Date Started: Not reported  
Date Completed: 05/31/1995  
Priority Level: Not reported

Action: ADMINISTRATIVE ORDER ON CONSENT  
Date Started: Not reported  
Date Completed: 07/25/1995  
Priority Level: Not reported

Action: REMEDIAL INVESTIGATION/FEASIBILITY STUDY NEGOTIATIONS  
Date Started: 06/28/1995  
Date Completed: 07/25/1995  
Priority Level: Not reported

Action: Notice Letters Issued  
Date Started: Not reported

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**SAN GABRIEL VALLEY (AREA 1) (Continued)**

**1000114959**

Date Completed: 08/18/1995  
Priority Level: Not reported

Action: LONG TERM RESPONSE ACTION  
Date Started: 04/16/1990  
Date Completed: 05/25/1998  
Priority Level: Not reported

Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
Date Started: 03/16/1995  
Date Completed: 06/23/1999  
Priority Level: Not reported

Action: RECORD OF DECISION  
Date Started: Not reported  
Date Completed: 06/23/1999  
Priority Level: Not reported

Action: RECORD OF DECISION AMENDMENT  
Date Started: Not reported  
Date Completed: 11/10/1999  
Priority Level: Not reported

Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
Date Started: 03/27/1997  
Date Completed: 11/10/1999  
Priority Level: Not reported

Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
Date Started: 07/25/1995  
Date Completed: 09/29/2000  
Priority Level: Not reported

Action: RECORD OF DECISION  
Date Started: Not reported  
Date Completed: 09/29/2000  
Priority Level: Not reported

Action: CLAIM IN BANKRUPTCY PROCEEDING  
Date Started: 06/30/1999  
Date Completed: 08/06/2001  
Priority Level: Not reported

Action: REMEDIAL DESIGN  
Date Started: 04/05/1999  
Date Completed: 03/29/2002  
Priority Level: Not reported

Action: Lodged By DOJ  
Date Started: Not reported  
Date Completed: 04/22/2002  
Priority Level: Not reported

Action: Lodged By DOJ  
Date Started: Not reported

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**SAN GABRIEL VALLEY (AREA 1) (Continued)**

**1000114959**

Date Completed:	04/22/2002
Priority Level:	Not reported
Action:	Explanation Of Significant Differences
Date Started:	Not reported
Date Completed:	08/22/2002
Priority Level:	Not reported
Action:	CONSENT DECREE
Date Started:	08/20/1996
Date Completed:	10/16/2002
Priority Level:	Not reported
Action:	CONSENT DECREE
Date Started:	09/25/2001
Date Completed:	10/16/2002
Priority Level:	Not reported
Action:	LONG TERM RESPONSE ACTION
Date Started:	05/16/2003
Date Completed:	Not reported
Priority Level:	Not reported
Action:	OPERATIONAL & FUNCTIONAL
Date Started:	05/16/2003
Date Completed:	05/16/2003
Priority Level:	Not reported
Action:	UNILATERAL ADMIN ORDER
Date Started:	Not reported
Date Completed:	08/28/2003
Priority Level:	Not reported
Action:	REMEDIAL DESIGN/REMEDIAL ACTION NEGOTIATIONS
Date Started:	03/28/2002
Date Completed:	08/28/2003
Priority Level:	Not reported
Action:	Notice of Intent by All Parties
Date Started:	Not reported
Date Completed:	09/22/2003
Priority Level:	Not reported
Action:	POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN
Date Started:	09/22/2003
Date Completed:	Not reported
Priority Level:	Not reported
Action:	REMEDIAL ACTION
Date Started:	09/27/2000
Date Completed:	09/30/2003
Priority Level:	Interim RA Report
Action:	REMEDIAL DESIGN/REMEDIAL ACTION NEGOTIATIONS
Date Started:	07/12/2001
Date Completed:	11/14/2003
Priority Level:	Not reported

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**SAN GABRIEL VALLEY (AREA 1) (Continued)**

**1000114959**

Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN  
Date Started: 11/14/2003  
Date Completed: Not reported  
Priority Level: Not reported

Action: Lodged By DOJ  
Date Started: Not reported  
Date Completed: 03/05/2004  
Priority Level: Not reported

Action: CONSENT DECREE  
Date Started: 11/14/2003  
Date Completed: 04/21/2004  
Priority Level: Not reported

Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN  
Date Started: 11/14/2003  
Date Completed: 04/28/2005  
Priority Level: Not reported

Action: Explanation Of Significant Differences  
Date Started: Not reported  
Date Completed: 11/10/2005  
Priority Level: Not reported

Action: FIVE-YEAR REVIEW  
Date Started: Not reported  
Date Completed: 09/28/2006  
Priority Level: Not reported

Action: ADMINISTRATIVE ORDER ON CONSENT  
Date Started: Not reported  
Date Completed: 12/18/2006  
Priority Level: Not reported

Action: Lodged By DOJ  
Date Started: Not reported  
Date Completed: 10/23/2007  
Priority Level: Not reported

Action: Lodged By DOJ  
Date Started: Not reported  
Date Completed: 10/23/2007  
Priority Level: Not reported

Action: CONSENT DECREE  
Date Started: 09/18/2007  
Date Completed: 03/11/2008  
Priority Level: Not reported

Action: CONSENT DECREE  
Date Started: 09/18/2007  
Date Completed: 04/10/2008  
Priority Level: Not reported

Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN  
Date Started: 11/14/2003

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**SAN GABRIEL VALLEY (AREA 1) (Continued)**

**1000114959**

Date Completed: 05/13/2008  
Priority Level: Not reported

Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION  
Date Started: 05/13/2008  
Date Completed: Not reported  
Priority Level: Not reported

**FINDS:**

Other Pertinent Environmental Activity Identified at Site

Registry ID: 110009329538

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and its Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

**NPL:**

EPA ID: CAD980677355  
EPA Region: 09  
Federal: N  
Final Date: 5/8/1984

**Category Details:**

NPL Status: Currently on the Final NPL  
Category Description: Depth To Aquifer-> 100 Feet  
Category Value: 135

NPL Status: Currently on the Final NPL  
Category Description: Distance To Nearest Population-> 0 And <= 1/4 Mile  
Category Value: 10

**Site Details:**

Site Name: SAN GABRIEL VALLEY (AREA 1)  
Site Status: Final

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**SAN GABRIEL VALLEY (AREA 1) (Continued)**

**1000114959**

Site Zip: 91733  
Site City: EL MONTE  
Site State: CA  
Federal Site: No  
Site County: LOS ANGELES  
EPA Region: 09  
Date Proposed: 09/08/83  
Date Deleted: Not reported  
Date Finalized: 05/08/84

Substance Details:

NPL Status: Currently on the Final NPL  
Substance ID: Not reported  
Substance: Not reported  
CAS #: Not reported  
Pathway: Not reported  
Scoring: Not reported

NPL Status: Currently on the Final NPL  
Substance ID: U044  
Substance: CHLOROFORM  
CAS #: 67-66-3  
Pathway: GROUND WATER PATHWAY  
Scoring: 4

NPL Status: Currently on the Final NPL  
Substance ID: U210  
Substance: TETRACHLOROETHENE  
CAS #: 127-18-4  
Pathway: GROUND WATER PATHWAY  
Scoring: 2

NPL Status: Currently on the Final NPL  
Substance ID: U228  
Substance: TRICHLOROETHYLENE (TCE)  
CAS #: 79-01-6  
Pathway: GROUND WATER PATHWAY  
Scoring: 2

Summary Details:

Conditions at listing September 1983): San Gabriel Valley Area 1) is a ground water plume that runs along the axis of the Rio Hondo Wash and the Salt Pit Wash in the San Gabriel ground water basin in El Monte, Los Angeles County, California. The plume also parallels the San Gabriel River to the east. It is approximately 4 miles long and 1.5 miles wide. Ground water is contaminated with trichloroethylene (TCE), perchloroethylene (PCE), and carbon tetrachloride (CTC) according to analyses by State agencies and local water companies. Many public wells in this area exceed the EPA Suggested No Adverse Response Levels (SNARL) for TCE and PCE. Approximately 200,000 people are affected. Cities and public water companies in the area have tested to ensure that their water supplies contain less than 5 parts per billion (ppb) of TCE and 4 ppb PCE, levels considered safe for human consumption. When alternative methods of reducing the TCE and PCE levels below such levels are not effective, wells are removed from service. Currently, three small mutual water companies have no alternate water supply and have advised their customers to use bottled water. Status June

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**SAN GABRIEL VALLEY (AREA 1) (Continued)**

**1000114959**

1984): As a result of EPA s analysis of initial remedial measures, completed in December 1983, EPA will install water treatment systems to provide clean water to two of the three companies that have no alternate supply. The third company has already purchased a treatment system and will begin operation of the system soon. A supplemental sampling program of contaminated wells will begin soon to get a snapshot view of the degree of contamination. The State Department of Health Services and EPA arepreparing to initiate a remedial investigation/feasibility study to determine the aerial and vertical extent of contamination and to develop alternatives for treatment and management of the problem. EPA continues its investigation to identify sources of contamination. This site, along with the three other San Gabriel Valley sites, was added to the NPL in May 1984 because it involves a serious problem that required taking immediate remedial action.

Site Status Details:

NPL Status: Final  
Proposed Date: 09/08/1983  
Final Date: 05/08/1984  
Deleted Date: Not reported

Narratives Details:

NPL Name: SAN GABRIEL VALLEY (AREA 1)  
City: EL MONTE  
State: CA

CONSENT:

Full-text of a consent decree on this site issued by a United States District Court is available from EDR.

ROD:

Full-text of USEPA Record of Decision(s) is available from EDR.

US ENG CONTROLS:

EPA ID: CAD980677355  
Site ID: 0901951  
Name: SAN GABRIEL VALLEY (AREA 1)  
Address: PECK RD & REAL  
EL MONTE, CA 91733

EPA Region: 09  
County: LOS ANGELES  
Event Code: Not reported  
Actual Date: Not reported

Action ID: 001  
Action Name: Explanation Of Significant Differences  
Action Completion date: 08/22/2002  
Planned Complet. date: / /  
Operable Unit: 01  
Contaminated Media : Groundwater  
Engineering Control: Biological Treatment, (N.O.S.)

Action ID: 001  
Action Name: Explanation Of Significant Differences  
Action Completion date: 08/22/2002  
Planned Complet. date: / /  
Operable Unit: 01

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**SAN GABRIEL VALLEY (AREA 1) (Continued)**

**1000114959**

Contaminated Media : Groundwater  
Engineering Control: Ion Exchange

Action ID: 001  
Action Name: Explanation Of Significant Differences  
Action Completion date: 08/22/2002  
Planned Complet. date: / /  
Operable Unit: 01  
Contaminated Media : Groundwater  
Engineering Control: UV Oxidation

Action ID: 002  
Action Name: Explanation Of Significant Differences  
Action Completion date: 11/10/2005  
Planned Complet. date: 12/31/2005  
Operable Unit: 05  
Contaminated Media : Groundwater  
Engineering Control: Biological Treatment, (Ex-Situ)

Action ID: 002  
Action Name: Explanation Of Significant Differences  
Action Completion date: 11/10/2005  
Planned Complet. date: 12/31/2005  
Operable Unit: 05  
Contaminated Media : Groundwater  
Engineering Control: Ion Exchange

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 05/11/1984  
Planned Complet. date: 06/30/1984  
Operable Unit: 03  
Contaminated Media : Groundwater  
Engineering Control: Air Stripping

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 05/11/1984  
Planned Complet. date: 06/30/1984  
Operable Unit: 03  
Contaminated Media : Groundwater  
Engineering Control: Flocculation

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 05/11/1984  
Planned Complet. date: 06/30/1984  
Operable Unit: 03  
Contaminated Media : Groundwater  
Engineering Control: Monitoring

Action ID: 001  
Action Name: RECORD OF DECISION  
Action Completion date: 05/11/1984  
Planned Complet. date: 06/30/1984  
Operable Unit: 03  
Contaminated Media : Groundwater

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAN GABRIEL VALLEY (AREA 1) (Continued)**

**1000114959**

Engineering Control: Operations & Maintenance (O&M)

Action ID: 003  
Action Name: RECORD OF DECISION  
Action Completion date: 09/29/1988  
Planned Complet. date: 09/30/1988  
Operable Unit: 04  
Contaminated Media : Groundwater  
Engineering Control: Air Stripping

Action ID: 003  
Action Name: RECORD OF DECISION  
Action Completion date: 09/29/1988  
Planned Complet. date: 09/30/1988  
Operable Unit: 04  
Contaminated Media : Groundwater  
Engineering Control: Discharge

Action ID: 003  
Action Name: RECORD OF DECISION  
Action Completion date: 09/29/1988  
Planned Complet. date: 09/30/1988  
Operable Unit: 04  
Contaminated Media : Groundwater  
Engineering Control: Liquid Phase Carbon Adsorption

Action ID: 004  
Action Name: RECORD OF DECISION  
Action Completion date: 03/31/1993  
Planned Complet. date: 03/31/1993  
Operable Unit: 02  
Contaminated Media : Groundwater  
Engineering Control: No Action

Action ID: 005  
Action Name: RECORD OF DECISION  
Action Completion date: 06/23/1999  
Planned Complet. date: 09/30/1999  
Operable Unit: 01  
Contaminated Media : Groundwater  
Engineering Control: Air Stripping

Action ID: 005  
Action Name: RECORD OF DECISION  
Action Completion date: 06/23/1999  
Planned Complet. date: 09/30/1999  
Operable Unit: 01  
Contaminated Media : Groundwater  
Engineering Control: Carbon Adsorption

Action ID: 005  
Action Name: RECORD OF DECISION  
Action Completion date: 06/23/1999  
Planned Complet. date: 09/30/1999  
Operable Unit: 01  
Contaminated Media : Groundwater  
Engineering Control: Discharge

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAN GABRIEL VALLEY (AREA 1) (Continued)**

**1000114959**

Action ID: 005  
Action Name: RECORD OF DECISION  
Action Completion date: 06/23/1999  
Planned Complet. date: 09/30/1999  
Operable Unit: 01  
Contaminated Media : Groundwater  
Engineering Control: Extraction

Action ID: 005  
Action Name: RECORD OF DECISION  
Action Completion date: 06/23/1999  
Planned Complet. date: 09/30/1999  
Operable Unit: 01  
Contaminated Media : Groundwater  
Engineering Control: Monitoring

Action ID: 005  
Action Name: RECORD OF DECISION  
Action Completion date: 06/23/1999  
Planned Complet. date: 09/30/1999  
Operable Unit: 01  
Contaminated Media : Groundwater  
Engineering Control: Natural Attenuation

Action ID: 005  
Action Name: RECORD OF DECISION  
Action Completion date: 06/23/1999  
Planned Complet. date: 09/30/1999  
Operable Unit: 01  
Contaminated Media : Groundwater  
Engineering Control: Reverse Osmosis

Action ID: 006  
Action Name: RECORD OF DECISION  
Action Completion date: 09/29/2000  
Planned Complet. date: 09/30/2000  
Operable Unit: 05  
Contaminated Media : Groundwater  
Engineering Control: Air Stripping

Action ID: 006  
Action Name: RECORD OF DECISION  
Action Completion date: 09/29/2000  
Planned Complet. date: 09/30/2000  
Operable Unit: 05  
Contaminated Media : Groundwater  
Engineering Control: Carbon Adsorption

Action ID: 001  
Action Name: ROD Amendment  
Action Completion date: 09/22/1993  
Planned Complet. date: 09/30/1993  
Operable Unit: 04  
Contaminated Media : Groundwater  
Engineering Control: Discharge

Action ID: 001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAN GABRIEL VALLEY (AREA 1) (Continued)**

**1000114959**

Action Name: ROD Amendment  
Action Completion date: 09/22/1993  
Planned Complet. date: 09/30/1993  
Operable Unit: 04  
Contaminated Media : Groundwater  
Engineering Control: Extraction

Action ID: 001  
Action Name: ROD Amendment  
Action Completion date: 09/22/1993  
Planned Complet. date: 09/30/1993  
Operable Unit: 04  
Contaminated Media : Groundwater  
Engineering Control: Flocculation

Action ID: 001  
Action Name: ROD Amendment  
Action Completion date: 09/22/1993  
Planned Complet. date: 09/30/1993  
Operable Unit: 04  
Contaminated Media : Groundwater  
Engineering Control: Liquid Phase Carbon Adsorption

Action ID: 001  
Action Name: ROD Amendment  
Action Completion date: 09/22/1993  
Planned Complet. date: 09/30/1993  
Operable Unit: 04  
Contaminated Media : Groundwater  
Engineering Control: Operations & Maintenance (O&M)

Action ID: 003  
Action Name: ROD Amendment  
Action Completion date: 11/10/1999  
Planned Complet. date: 09/30/1999  
Operable Unit: 02  
Contaminated Media : Groundwater  
Engineering Control: Air Stripping

Action ID: 003  
Action Name: ROD Amendment  
Action Completion date: 11/10/1999  
Planned Complet. date: 09/30/1999  
Operable Unit: 02  
Contaminated Media : Groundwater  
Engineering Control: Discharge

Action ID: 003  
Action Name: ROD Amendment  
Action Completion date: 11/10/1999  
Planned Complet. date: 09/30/1999  
Operable Unit: 02  
Contaminated Media : Groundwater  
Engineering Control: Extraction

Action ID: 003  
Action Name: ROD Amendment

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAN GABRIEL VALLEY (AREA 1) (Continued)**

**1000114959**

Action Completion date: 11/10/1999  
Planned Complet. date: 09/30/1999  
Operable Unit: 02  
Contaminated Media : Groundwater  
Engineering Control: Monitoring  
  
Action ID: 003  
Action Name: ROD Amendment  
Action Completion date: 11/10/1999  
Planned Complet. date: 09/30/1999  
Operable Unit: 02  
Contaminated Media : Groundwater  
Engineering Control: Treatment, (N.O.S.)

6  
WSW  
< 1/8  
0.081 mi.  
428 ft.

**LA CO DEPT OF PUB SOC SERV  
3405 RIO HONDO AVE  
EL MONTE, CA 91731**

**SLIC S106484651  
WIP N/A**

**Relative:  
Lower**

SLIC:  
Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 2000-04-01 00:00:00  
Global Id: SL603798844  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 34.068885  
Longitude: -118.063449  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.5893  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

**Actual:  
259 ft.**

WIP:  
Region: 4  
File Number: 107.5893  
**File Status: Active**  
Staff: CORTEZ  
Facility Suite: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**B7**  
**SW**  
**< 1/8**  
**0.101 mi.**  
**535 ft.**

**TELE TV/WORLDCOM BROADBAND**  
**3375 RIO HONDO AVE.**  
**EL MONTE, CA 91731**

**Site 1 of 2 in cluster B**

**SLIC** **S106484665**  
**N/A**

**Relative:**  
**Lower**

**SLIC:**

Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 2000-04-01 00:00:00  
Global Id: SL603798858  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 34.068885  
Longitude: -118.063449  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.5934  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

**Actual:**  
**258 ft.**

**B8**  
**SW**  
**< 1/8**  
**0.102 mi.**  
**540 ft.**

**CROSS COUNTRY WIRELESS**  
**3375 RIO HONDO AVE**  
**EL MONTE, CA 91731**

**Site 2 of 2 in cluster B**

**HAZNET** **S103653846**  
**WIP** **N/A**

**Relative:**  
**Lower**

**HAZNET:**

Gepaid: CAC001185496  
Contact: CROSS COUNTRY WIRELESS  
Telephone: 0000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 320 GOLDENSHORE  
Mailing City,St,Zip: LONG BEACH, CA 908020000  
Gen County: Los Angeles  
TSD EPA ID: CAT080013352  
TSD County: Los Angeles  
Waste Category: Waste oil and mixed oil  
Disposal Method: Recycler  
Tons: 7.9230  
Facility County: Los Angeles

**Actual:**  
**258 ft.**

**WIP:**

Region: 4  
File Number: 107.5934  
**File Status: Active**  
Staff: CORTEZ  
Facility Suite: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

9  
WNW  
< 1/8  
0.124 mi.  
657 ft.

GEO. A. HILLEBRECHT, INC.  
, CA

HIST UST U001560023  
N/A

Relative:  
Higher

HIST UST:  
Region: STATE  
Facility ID: 00000032569  
Facility Type: Not reported  
Other Type: Not reported  
Total Tanks: 0010  
Contact Name: Not reported  
Telephone: 6197454948  
Owner Name: GEO. A. HILLEBRECHT, INC.  
Owner Address: Not reported  
Owner City,St,Zip: Not reported

Actual:  
263 ft.

Tank Num: 001  
Container Num: 2  
Year Installed: 1973  
Tank Capacity: 00002000  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: None

Tank Num: 002  
Container Num: 3  
Year Installed: 1973  
Tank Capacity: 00001000  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: None

Tank Num: 003  
Container Num: 4  
Year Installed: 1970  
Tank Capacity: 00000550  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: None

Tank Num: 004  
Container Num: 5  
Year Installed: Not reported  
Tank Capacity: 00012000  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: None

Tank Num: 005  
Container Num: 6  
Year Installed: Not reported  
Tank Capacity: 00012000  
Tank Used for: PRODUCT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GEO. A. HILLEBRECHT, INC. (Continued)**

**U001560023**

Type of Fuel: DIESEL  
Tank Construction: Not reported  
Leak Detection: None

Tank Num: 006  
Container Num: 7  
Year Installed: Not reported  
Tank Capacity: 00012000  
Tank Used for: PRODUCT  
Type of Fuel: DIESEL  
Tank Construction: Not reported  
Leak Detection: None

Tank Num: 007  
Container Num: 8  
Year Installed: Not reported  
Tank Capacity: 00000550  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: None

Tank Num: 008  
Container Num: 9  
Year Installed: Not reported  
Tank Capacity: 00000550  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: None

Tank Num: 009  
Container Num: 10  
Year Installed: Not reported  
Tank Capacity: 00000550  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: None

Tank Num: 010  
Container Num: 11  
Year Installed: Not reported  
Tank Capacity: 00000550  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: None

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**C10**      **RAYTHEON COMPUTER**  
**ENE**      **9550 FLAIR DR**  
**1/8-1/4**    **EL MONTE, CA 91731**  
**0.130 mi.**  
**685 ft.**    **Site 1 of 2 in cluster C**

**WIP**    **S106765302**  
**N/A**

**Relative:**      **WIP:**  
**Higher**        Region:            4  
                    File Number:    107.0476  
**Actual:**        **File Status:**    **Active**  
**263 ft.**        Staff:             CORTEZ  
                    Facility Suite:    3

**C11**      **RAYTHEON COMPUTER**  
**ENE**      **9550 FLAIR DR. #3**  
**1/8-1/4**    **EL MONTE, CA 91731**  
**0.130 mi.**  
**685 ft.**    **Site 2 of 2 in cluster C**

**SLIC**    **S106484563**  
**N/A**

**Relative:**      **SLIC:**  
**Higher**        Region:            STATE  
                    **Facility Status:**    **Open - Site Assessment**  
**Actual:**        Status Date:        1987-11-30 00:00:00  
**263 ft.**        Global Id:            SL603798752  
                    Lead Agency:        LOS ANGELES RWQCB (REGION 4)  
                    Lead Agency Case Number: Not reported  
                    Latitude:            34.072022  
                    Longitude:          -118.063415  
                    Case Type:          Cleanup Program Site  
                    Case Worker:        Not reported  
                    Local Agency:        Not reported  
                    RB Case Number:    107.0476  
                    File Location:        Not reported  
                    Potential Media Affected: Aquifer used for drinking water supply  
                    Potential Contaminants of Concern: Not reported  
                    Site History:        Not reported

**12**        **CHINESE CULTURE CENTER**  
**South**    **9443 TELSTAR AVE**  
**1/8-1/4**    **EL MONTE, CA 91731**  
**0.155 mi.**  
**821 ft.**

**SLIC**    **S106484674**  
**WIP**    **N/A**

**Relative:**      **SLIC:**  
**Lower**        Region:            STATE  
                    **Facility Status:**    **Open - Site Assessment**  
**Actual:**        Status Date:        2000-04-01 00:00:00  
**254 ft.**        Global Id:            SL603798867  
                    Lead Agency:        LOS ANGELES RWQCB (REGION 4)  
                    Lead Agency Case Number: Not reported  
                    Latitude:            34.068885  
                    Longitude:          -118.063449  
                    Case Type:          Cleanup Program Site  
                    Case Worker:        Not reported  
                    Local Agency:        Not reported  
                    RB Case Number:    107.5948  
                    File Location:        Not reported  
                    Potential Media Affected: Aquifer used for drinking water supply

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHINESE CULTURE CENTER (Continued)**

**S106484674**

Potential Contaminants of Concern: Not reported  
Site History: Not reported

WIP:

Region: 4  
File Number: 107.5948  
**File Status: Active**  
Staff: CORTEZ  
Facility Suite: Not reported

**D13**  
**SSE**  
**1/8-1/4**  
**0.167 mi.**  
**881 ft.**

**CAL STATE AIR RESOURCE BOARD**  
**9528 TELSTAR AVE**  
**EL MONTE, CA**

**CA FID UST** **S101583704**  
**EMI** **N/A**  
**WIP**

**Site 1 of 8 in cluster D**

**Relative:**  
**Lower**

CA FID UST:  
Facility ID: 19005613  
Regulated By: UTNKA  
Regulated ID: 00006487  
Cortese Code: Not reported  
SIC Code: Not reported  
Facility Phone: 8180000000  
Mail To: Not reported  
Mailing Address: 9528 TELSTAR AVE  
Mailing Address 2: Not reported  
Mailing City,St,Zip: EL MONTE  
Contact: Not reported  
Contact Phone: Not reported  
DUNs Number: Not reported  
NPDES Number: Not reported  
EPA ID: Not reported  
Comments: Not reported  
Status: Active

**Actual:**  
**254 ft.**

EMI:

Year: 1987  
County Code: 19  
Air Basin: SC  
Facility ID: 15948  
Air District Name: SC  
SIC Code: 6512  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

WIP:

Region: 4  
File Number: 107.0348

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CAL STATE AIR RESOURCE BOARD (Continued)**

**S101583704**

**File Status:** Active  
**Staff:** CORTEZ  
**Facility Suite:** Not reported

**D14**  
**SSE**  
**1/8-1/4**  
**0.167 mi.**  
**881 ft.**

**STATE AIR RESOURCES BOARD**  
**9528 TELSTAR AVE.**  
**EL MONTE, CA 91731**  
**Site 2 of 8 in cluster D**

**SLIC S106484547**  
**N/A**

**Relative:**  
**Lower**

**SLIC:**  
Region: STATE  
**Facility Status:** **Open - Site Assessment**  
Status Date: 1987-06-23 00:00:00  
Global Id: SL603798733  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 34.068885  
Longitude: -118.063449  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.0348  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

**Actual:**  
**254 ft.**

**D15**  
**SSE**  
**1/8-1/4**  
**0.167 mi.**  
**881 ft.**

**AIR RESOURCES BOARD**  
**9528 TELSTAR AVE**  
**EL MONTE, CA 91731**  
**Site 3 of 8 in cluster D**

**HIST UST U001569313**  
**N/A**

**Relative:**  
**Lower**

**HIST UST:**  
Region: STATE  
Facility ID: 00000006487  
Facility Type: Other  
Other Type: LABORATORY  
Total Tanks: 0003  
Contact Name: RUTH BENNETT  
Telephone: 8185756878  
Owner Name: STATE AIR RESOURCES BOARD  
Owner Address: 9528 TELSTAR AVE.  
Owner City,St,Zip: EL MONTE, CA 91731

**Actual:**  
**254 ft.**

Tank Num: 001  
Container Num: 3  
Year Installed: 1975  
Tank Capacity: 00010000  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: Stock Inventor

Tank Num: 002

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AIR RESOURCES BOARD (Continued)**

**U001569313**

Container Num: 2  
Year Installed: 1975  
Tank Capacity: 00010000  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: Stock Inventor

Tank Num: 003  
Container Num: 1  
Year Installed: 1971  
Tank Capacity: 00005000  
Tank Used for: PRODUCT  
Type of Fuel: REGULAR  
Tank Construction: Not reported  
Leak Detection: Stock Inventor

**D16**  
**SSE**  
**1/8-1/4**  
**0.167 mi.**  
**881 ft.**

**CAL STATE AIR RESOURCE BOARD**  
**9528 TELSTAR AVE**  
**EL MONTE, CA 91731**  
**Site 4 of 8 in cluster D**

**UST U003776246**  
**SWEEPS UST N/A**

**Relative:**  
**Lower**  
  
**Actual:**  
**254 ft.**

UST:  
Global ID: 580  
Latitude: 34.06885  
Longitude: -118.06213

SWEEPS UST:  
Status: A  
Comp Number: 9115  
Number: 9  
Board Of Equalization: Not reported  
Ref Date: 06-30-89  
Act Date: Not reported  
Created Date: 06-30-89  
Tank Status: A  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-000-009115-000001  
Actv Date: 06-30-89  
Capacity: Not reported  
Tank Use: UNKNOWN  
Stg: W  
Content: Not reported  
Number Of Tanks: 2

Status: A  
Comp Number: 9115  
Number: 9  
Board Of Equalization: Not reported  
Ref Date: 06-30-89  
Act Date: Not reported  
Created Date: 06-30-89  
Tank Status: A  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-000-009115-000002  
Actv Date: 06-30-89

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CAL STATE AIR RESOURCE BOARD (Continued)**

**U003776246**

Capacity: Not reported  
Tank Use: UNKNOWN  
Stg: W  
Content: Not reported  
Number Of Tanks: Not reported

**D17  
SSE  
1/8-1/4  
0.167 mi.  
881 ft.**

**HAAGEN SMIT LABORATORY  
9528 TELSTAR AVENUE  
EL MONTE, CA 91731**

**LUST S106875143  
N/A**

**Site 5 of 8 in cluster D**

**Relative:  
Lower**

**LUST:**

Region: STATE  
Global Id: T0603715848  
Latitude: 34.068  
Longitude: -118.061  
Case Type: LUST Cleanup Site  
Status: Open - Site Assessment  
Status Date: 2005-03-08 00:00:00  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Case Worker: Not reported  
Local Agency: LOS ANGELES COUNTY  
RB Case Number: 9115  
LOC Case Number: 9314-9115  
File Location: Not reported  
Potential Media Affect: Under Investigation  
Potential Contaminats of Concern: Gasoline  
Site History: Not reported

**Actual:  
254 ft.**

**D18  
SSE  
1/8-1/4  
0.168 mi.  
886 ft.**

**GENERAL ELECTRIC CO.  
9530 TELSTAR AVE  
EL MONTE, CA 91731**

**SLIC S106484555  
WIP N/A**

**Site 6 of 8 in cluster D**

**Relative:  
Lower**

**SLIC:**

Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 1987-06-15 00:00:00  
Global Id: SL603798742  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 34.068885  
Longitude: -118.063449  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.0417  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

**Actual:  
254 ft.**

**WIP:**

Region: 4

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GENERAL ELECTRIC CO. (Continued)**

**S106484555**

File Number: 107.0417  
**File Status:** **Active**  
Staff: CORTEZ  
Facility Suite: Not reported

Region: 4  
File Number: 107.0828  
**File Status:** **Historical**  
Staff: ACARLOS  
Facility Suite: Not reported

**E19**  
**East**  
**1/8-1/4**  
**0.171 mi.**  
**901 ft.**

**COOK-BOYNTON CO**  
**3460 FLETCHER AVE**  
**EL MONTE, CA**  
**Site 1 of 4 in cluster E**

**HIST UST** **U001569327**  
**WIP** **N/A**  
**SWEEPS UST**

**Relative:**  
**Equal**

**HIST UST:**  
Region: STATE  
Facility ID: 00000003157  
Facility Type: Other  
Other Type: FOOD BROKER  
Total Tanks: 0001  
Contact Name: Not reported  
Telephone: 8185795000  
Owner Name: COOK-BOYNTON COMPANY  
Owner Address: 3460 FLETCHER AVENUE  
Owner City,St,Zip: EL MONTE, CA 91731

**Actual:**  
**260 ft.**

Tank Num: 001  
Container Num: 1  
Year Installed: 1974  
Tank Capacity: 00012000  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: Visual

**WIP:**

Region: 4  
File Number: 107.5938  
**File Status:** **Active**  
Staff: CORTEZ  
Facility Suite: Not reported

**SWEEPS UST:**

Status: A  
Comp Number: 13033  
Number: 9  
Board Of Equalization: 44-010025  
Ref Date: 06-30-89  
Act Date: Not reported  
Created Date: 06-30-89  
Tank Status: A  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-000-013033-000001  
Actv Date: 06-30-89

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COOK-BOYNTON CO (Continued)**

**U001569327**

Capacity: Not reported  
Tank Use: UNKNOWN  
Stg: W  
Content: Not reported  
Number Of Tanks: 1

**E20**  
**East**  
**1/8-1/4**  
**0.171 mi.**  
**901 ft.**

**L. A. COUNTY FIRE FIGHTERS-LOCAL 1014**  
**3460 FLETCHER AVE.**  
**EL MONTE, CA 91734**

**SLIC S106484667**  
**N/A**

**Site 2 of 4 in cluster E**

**Relative:**  
**Equal**

SLIC:

Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 2000-04-01 00:00:00  
Global Id: SL603798860  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 34.069396  
Longitude: -118.059171  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.5938  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

**Actual:**  
**260 ft.**

**F21**  
**East**  
**1/8-1/4**  
**0.171 mi.**  
**905 ft.**

**AXT, INC**  
**3477 FLETCHER AVE.**  
**EL MONTE, CA 91731**

**SLIC S106484662**  
**N/A**

**Site 1 of 4 in cluster F**

**Relative:**  
**Higher**

SLIC:

Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 2000-04-01 00:00:00  
Global Id: SL603798855  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 34.069396  
Longitude: -118.059171  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.5927  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

**Actual:**  
**261 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**F22**      **ALPHA PHOTONICS, INC**  
**East**      **3477 FLETCHER AVE**  
**1/8-1/4**      **EL MONTE, CA 91731**  
**0.171 mi.**  
**905 ft.**      **Site 2 of 4 in cluster F**

**HAZNET**      **S103949602**  
**WIP**      **N/A**

**Relative:**  
**Higher**

HAZNET:  
Gepaid: CAL000143231  
Contact: STEVEN LIN  
Telephone: 8183504886  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 2019 SATURN ST  
Mailing City,St,Zip: MONTEREY PARK, CA 917540000  
Gen County: Los Angeles  
TSD EPA ID: CAD028409019  
TSD County: Los Angeles  
Waste Category: Other organic solids  
Disposal Method: Transfer Station  
Tons: .0750  
Facility County: Los Angeles

**Actual:**  
**261 ft.**

Gepaid: CAL000143231  
Contact: STEVEN LIN  
Telephone: 8183504886  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 2019 SATURN ST  
Mailing City,St,Zip: MONTEREY PARK, CA 917540000  
Gen County: Los Angeles  
TSD EPA ID: CAD028409019  
TSD County: Los Angeles  
Waste Category: Alkaline solution without metals (pH > 12.5)  
Disposal Method: Not reported  
Tons: .9382  
Facility County: Los Angeles

Gepaid: CAL000143231  
Contact: STEVEN LIN  
Telephone: 8183504886  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 2019 SATURN ST  
Mailing City,St,Zip: MONTEREY PARK, CA 917540000  
Gen County: Los Angeles  
TSD EPA ID: CAD028409019  
TSD County: Los Angeles  
Waste Category: Off-specification, aged, or surplus inorganics  
Disposal Method: Not reported  
Tons: .4587  
Facility County: Los Angeles

Gepaid: CAL000143231  
Contact: STEVEN LIN  
Telephone: 8183504886  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 2019 SATURN ST  
Mailing City,St,Zip: MONTEREY PARK, CA 917540000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ALPHA PHOTONICS, INC (Continued)**

**S103949602**

Gen County: Los Angeles  
TSD EPA ID: CAD028409019  
TSD County: Los Angeles  
Waste Category: Laboratory waste chemicals  
Disposal Method: Not reported  
Tons: .4544  
Facility County: Los Angeles  
  
Gepaid: CAL000143231  
Contact: STEVEN LIN  
Telephone: 8183504886  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 2019 SATURN ST  
Mailing City,St,Zip: MONTEREY PARK, CA 917540000  
Gen County: Los Angeles  
TSD EPA ID: CAD028409019  
TSD County: Los Angeles  
Waste Category: Unspecified alkaline solution  
Disposal Method: Transfer Station  
Tons: .0050  
Facility County: Los Angeles

[Click this hyperlink](#) while viewing on your computer to access 32 additional CA\_HAZNET: record(s) in the EDR Site Report.

WIP:

Region: 4  
File Number: 107.5927  
**File Status: Active**  
Staff: CORTEZ  
Facility Suite: Not reported

D23  
SSE  
1/8-1/4  
0.172 mi.  
908 ft.

**LITH O ROLL**  
**9521 TELSTAR AVE.**  
**EL MONTE, CA 91731**  
**Site 7 of 8 in cluster D**

**SLIC S106484564**  
**N/A**

**Relative:**  
**Lower**

SLIC:

Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 1987-11-30 00:00:00  
Global Id: SL603798753  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 34.068885  
Longitude: -118.063449  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.0503  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

**Actual:**  
**254 ft.**

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**D24**  
**SSE**  
**1/8-1/4**  
**0.172 mi.**  
**908 ft.**

**LITH-O-ROLL**  
**9521 TELSTAR AVE**  
**EL MONTE, CA 91734**

**Site 8 of 8 in cluster D**

**HAZNET** **S102806237**  
**EMI** **N/A**  
**WIP**

**Relative:**  
**Lower**

HAZNET:  
 Gepaid: CAD008505836  
 Contact: GEORGE POOLE/MAINT MGR  
 Telephone: 6265790340  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: PO BOX 5328  
 Mailing City,St,Zip: EL MONTE, CA 917341328  
 Gen County: Los Angeles  
 TSD EPA ID: CAD981696420  
 TSD County: Los Angeles  
 Waste Category: Unspecified oil-containing waste  
 Disposal Method: Transfer Station  
 Tons: 0.91  
 Facility County: Los Angeles

**Actual:**  
**254 ft.**

Gepaid: CAD008505836  
 Contact: RITA SEPE/PAT PHIPPIS  
 Telephone: 8185790340  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: PO BOX 5328  
 Mailing City,St,Zip: EL MONTE, CA 917341328  
 Gen County: Los Angeles  
 TSD EPA ID: CAD000088252  
 TSD County: Los Angeles  
 Waste Category: Unspecified oil-containing waste  
 Disposal Method: Transfer Station  
 Tons: 0.15  
 Facility County: Los Angeles

Gepaid: CAD008505836  
 Contact: RITA SEPE/PAT PHIPPIS  
 Telephone: 8185790340  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: PO BOX 5328  
 Mailing City,St,Zip: EL MONTE, CA 917341328  
 Gen County: Los Angeles  
 TSD EPA ID: CAD981696420  
 TSD County: Los Angeles  
 Waste Category: Waste oil and mixed oil  
 Disposal Method: Transfer Station  
 Tons: 2.502  
 Facility County: Los Angeles

Gepaid: CAD008505836  
 Contact: RITA SEPE/PAT PHIPPIS  
 Telephone: 8185790340  
 Facility Addr2: Not reported  
 Mailing Name: Not reported  
 Mailing Address: PO BOX 5328  
 Mailing City,St,Zip: EL MONTE, CA 917341328

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LITH-O-ROLL (Continued)**

**S102806237**

Gen County: Los Angeles  
TSD EPA ID: CAT080013352  
TSD County: Los Angeles  
Waste Category: Unspecified oil-containing waste  
Disposal Method: Recycler  
Tons: 2.2517  
Facility County: Los Angeles

Gepaid: CAD008505836  
Contact: RITA SEPE/PAT PHIPPIS  
Telephone: 8185790340  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 5328  
Mailing City,St,Zip: EL MONTE, CA 917341328  
Gen County: Los Angeles  
TSD EPA ID: CAT080033681  
TSD County: Los Angeles  
Waste Category: Unspecified oil-containing waste  
Disposal Method: Disposal, Land Fill  
Tons: 0.3  
Facility County: Los Angeles

[Click this hyperlink](#) while viewing on your computer to access 31 additional CA\_HAZNET: record(s) in the EDR Site Report.

**EMI:**

Year: 1987  
County Code: 19  
Air Basin: SC  
Facility ID: 2455  
Air District Name: SC  
SIC Code: 3079  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 14  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1990  
County Code: 19  
Air Basin: SC  
Facility ID: 2455  
Air District Name: SC  
SIC Code: 3061  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 2  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**LITH-O-ROLL (Continued)**

**S102806237**

SOX - Oxides of Sulphur Tons/Yr: 0  
 Particulate Matter Tons/Yr: 0  
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1995  
 County Code: 19  
 Air Basin: SC  
 Facility ID: 2455  
 Air District Name: SC  
 SIC Code: 3061  
 Air District Name: SOUTH COAST AQMD  
 Community Health Air Pollution Info System: Not reported  
 Consolidated Emission Reporting Rule: Not reported  
 Total Organic Hydrocarbon Gases Tons/Yr: 5  
 Reactive Organic Gases Tons/Yr: 5  
 Carbon Monoxide Emissions Tons/Yr: 0  
 NOX - Oxides of Nitrogen Tons/Yr: 0  
 SOX - Oxides of Sulphur Tons/Yr: 0  
 Particulate Matter Tons/Yr: 0  
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

WIP:

Region: 4  
 File Number: 107.0503  
**File Status: Active**  
 Staff: CORTEZ  
 Facility Suite: Not reported

**E25**  
 East  
 1/8-1/4  
 0.172 mi.  
 909 ft.

**HUGUENY A F**  
 3450 FLETCHER AVE  
 LOS ANGELES, CA

EDR Historical Auto Stations 1009082851  
 N/A

Site 3 of 4 in cluster E

Relative:  
 Lower

EDR Historical Auto Stations:  
 Name: HUGUENY A F  
 Year: 1937  
 Type: AUTOMOBILE REPAIRING

Actual:  
 259 ft.

**F26**  
 East  
 1/8-1/4  
 0.172 mi.  
 909 ft.

**LYTE OPTRONICS**  
 3477 FLECTURE DR  
 EL MONTE, CA 91731

RCRA-SQG 1004676380  
 FINDS CAR000084517

Site 3 of 4 in cluster F

Relative:  
 Higher

RCRA-SQG:  
 Date form received by agency: 02/27/2002  
 Facility name: LYTE OPTRONICS  
 Facility address: 3477 FLECTURE DR  
 EL MONTE, CA 91731  
 EPA ID: CAR000084517  
 Mailing address: 9650 TELSTAR AVE  
 EL MONTE, CA 91731  
 Contact: GREG KONTUR  
 Contact address: Not reported  
 Not reported

Actual:  
 261 ft.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LYTE OPTRONICS (Continued)**

**1004676380**

Contact country: Not reported  
Contact telephone: (626) 277-4109  
Contact email: Not reported  
EPA Region: 09  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

**Owner/Operator Summary:**

Owner/operator name: AMERICAN XTAL TECHNOLOGY  
Owner/operator address: 4281 TECHNOLOGY DR  
FREMONT, CA 94538  
Owner/operator country: Not reported  
Owner/operator telephone: (510) 683-5900  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: Unknown  
Transporter of hazardous waste: Unknown  
Treater, storer or disposer of HW: No  
Underground injection activity: Unknown  
On-site burner exemption: Unknown  
Furnace exemption: Unknown  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

**Universal Waste Summary:**

Waste type: Batteries  
Accumulated waste on-site: Unknown  
Generated waste on-site: Unknown

Waste type: Lamps  
Accumulated waste on-site: Unknown  
Generated waste on-site: Unknown

Waste type: Pesticides  
Accumulated waste on-site: Unknown  
Generated waste on-site: Unknown

Waste type: Thermostats  
Accumulated waste on-site: Unknown  
Generated waste on-site: Unknown

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LYTE OPTRONICS (Continued)**

**1004676380**

Historical Generators:

Date form received by agency: 02/27/2002  
Facility name: LYTE OPTRONICS  
Classification: Large Quantity Generator

Date form received by agency: 10/12/2000  
Facility name: LYTE OPTRONICS  
Site name: ALPHA PHOTONICS INC  
Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002  
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003  
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: D004  
Waste name: ARSENIC

Violation Status: No violations found

**FINDS:**

Other Pertinent Environmental Activity Identified at Site

Registry ID: 110012210277

California - Hazardous Waste Tracking System - Datamart

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**G27**      **ELECTRONIC SOLUTIONS**  
**ESE**      **3445 FLETCHER AVE**  
**1/8-1/4**    **SOUTH EL MONTE, CA 91733**  
**0.174 mi.**  
**919 ft.**    **Site 1 of 2 in cluster G**

**WIP**    **S106765281**  
**N/A**

**Relative:**      **WIP:**  
**Lower**          Region:            4  
                     File Number:    107.0411  
**Actual:**          **File Status:**    **Backlog**  
**258 ft.**          Staff:             CORTEZ  
                     Facility Suite:   Not reported

**G28**      **ZERO CORP/FORMER ELECTRONICS SOLUTIONS**  
**ESE**      **3445 FLETCHER AVENUE**  
**1/8-1/4**    **EL MONTE, CA 91733**  
**0.174 mi.**  
**919 ft.**    **Site 2 of 2 in cluster G**

**SLIC**    **S106484334**  
**N/A**

**Relative:**      **SLIC:**  
**Lower**          Region:            STATE  
                     **Facility Status:**    **Completed - Case Closed**  
**Actual:**          Status Date:        2004-01-16 00:00:00  
**258 ft.**          Global Id:            SL603792707  
                     Lead Agency:        Not reported  
                     Lead Agency Case Number: Not reported  
                     Latitude:            34.069396  
                     Longitude:          -118.059171  
                     Case Type:          Cleanup Program Site  
                     Case Worker:        Not reported  
                     Local Agency:       Not reported  
                     RB Case Number:    107.0411  
                     File Location:       Not reported  
                     Potential Media Affected: Not reported  
                     Potential Contaminants of Concern: Not reported  
                     Site History:        Not reported

**H29**      **MOBILECOMM**  
**SSW**      **9384 TELSTAR AVE**  
**1/8-1/4**    **EL MONTE, CA 91731**  
**0.174 mi.**  
**920 ft.**    **Site 1 of 3 in cluster H**

**WIP**    **S106765788**  
**N/A**

**Relative:**      **WIP:**  
**Lower**          Region:            4  
                     File Number:    107.1229  
**Actual:**          **File Status:**    **Historical**  
**254 ft.**          Staff:             BPONEK  
                     Facility Suite:    Not reported

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**F30**  
**East**  
**1/8-1/4**  
**0.175 mi.**  
**924 ft.**

**DEMETER TECHNOLOGIES INC**  
**3477 FLETCHER AVE STE A**  
**EL MONTE, CA 91731**

**RCRA-SQG** **1004677466**  
**FINDS** **CAR000097600**  
**HAZNET**

**Site 4 of 4 in cluster F**

**Relative:**  
**Higher**

RCRA-SQG:

Date form received by agency: 05/30/2001  
Facility name: DEMETER TECHNOLOGIES INC  
Facility address: 3477 FLETCHER AVE STE A  
EL MONTE, CA 917313001

**Actual:**  
**261 ft.**

EPA ID: CAR000097600  
Mailing address: 9650 TELSTAR AVE  
EL MONTE, CA 917313004

Contact: ROBERT PAU  
Contact address: 9650 TELSTAR AVE  
EL MONTE, CA 917313004

Contact country: US  
Contact telephone: (626) 652-7100  
Contact email: Not reported

EPA Region: 09  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: DEMETER TECHNOLOGIES INC  
Owner/operator address: 9650 TELSTAR AVE  
EL MONTE, CA 91731

Owner/operator country: Not reported  
Owner/operator telephone: (626) 652-7100  
Legal status: Private

Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: Unknown  
Mixed waste (haz. and radioactive): Unknown  
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: Unknown  
Furnace exemption: Unknown  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DEMETER TECHNOLOGIES INC (Continued)**

**1004677466**

Historical Generators:

Date form received by agency: 05/30/2001  
Facility name: DEMETER TECHNOLOGIES INC  
Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002  
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003  
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: D004  
Waste name: ARSENIC

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site

Registry ID: 110012243072

California - Hazardous Waste Tracking System - Datamart

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:

Gepaid: CAR000097600  
Contact: Robert Pau  
Telephone: 6266527100  
Facility Addr2: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DEMETER TECHNOLOGIES INC (Continued)**

**1004677466**

Mailing Name: Not reported  
Mailing Address: 9650 Telstar Ave  
Mailing City,St,Zip: El Monte, CA 917313004  
Gen County: Los Angeles  
TSD EPA ID: Not reported  
TSD County: Los Angeles  
Waste Category: Alkaline solution without metals (pH > 12.5)  
Disposal Method: Recycler  
Tons: 0.01  
Facility County: Not reported

Gepaid: CAR000097600  
Contact: Robert Pau  
Telephone: 6266527100  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 9650 Telstar Ave  
Mailing City,St,Zip: El Monte, CA 917313004  
Gen County: Los Angeles  
TSD EPA ID: Not reported  
TSD County: Los Angeles  
Waste Category: Aqueous solution with less than 10% total organic residues  
Disposal Method: Recycler  
Tons: 0.22  
Facility County: Not reported

Gepaid: CAR000097600  
Contact: Robert Pau  
Telephone: 6266527100  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 9650 Telstar Ave  
Mailing City,St,Zip: El Monte, CA 917313004  
Gen County: Los Angeles  
TSD EPA ID: Not reported  
TSD County: Los Angeles  
Waste Category: Other inorganic solid waste  
Disposal Method: Disposal, Land Fill  
Tons: 0.07  
Facility County: Not reported

Gepaid: CAR000097600  
Contact: Robert Pau  
Telephone: 6266527100  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 9650 Telstar Ave  
Mailing City,St,Zip: El Monte, CA 917313004  
Gen County: Los Angeles  
TSD EPA ID: Not reported  
TSD County: Los Angeles  
Waste Category: Other inorganic solid waste  
Disposal Method: Treatment, Incineration  
Tons: 0.02  
Facility County: Not reported

Gepaid: CAR000097600

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DEMETER TECHNOLOGIES INC (Continued)**

**1004677466**

Contact: Robert Pau  
Telephone: 6266527100  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 9650 Telstar Ave  
Mailing City,St,Zip: El Monte, CA 917313004  
Gen County: Los Angeles  
TSD EPA ID: Not reported  
TSD County: Los Angeles  
Waste Category: Other organic solids  
Disposal Method: Treatment, Incineration  
Tons: 0.04  
Facility County: Not reported

[Click this hyperlink](#) while viewing on your computer to access  
14 additional CA\_HAZNET: record(s) in the EDR Site Report.

**E31**  
**ESE**  
**1/8-1/4**  
**0.175 mi.**  
**926 ft.**

**ZERO CORP SCANBE DIV**  
**3445 FLETCHER AVE**  
**EL MONTE, CA 91731**  
**Site 4 of 4 in cluster E**

**RCRA-SQG 1000324882**  
**CAD009635582**

**Relative:**  
**Lower**

RCRA-SQG:

**Actual:**  
**258 ft.**

Date form received by agency: 09/01/1996  
Facility name: ZERO CORP SCANBE DIV  
Facility address: 3445 FLETCHER  
EL MONTE, CA 91731  
EPA ID: CAD009635582  
Mailing address: 3445 FLETCHER AVENUE  
EL MONTE, CA 91731  
Contact: Not reported  
Contact address: Not reported  
Contact country: Not reported  
Contact telephone: Not reported  
Contact email: Not reported  
EPA Region: 09  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: ZERO CORPORATION  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported  
Owner/operator name: NOT REQUIRED

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ZERO CORP SCANBE DIV (Continued)**

**1000324882**

Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: Unknown  
Mixed waste (haz. and radioactive): Unknown  
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: Unknown  
Furnace exemption: Unknown  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 09/01/1996  
Facility name: ZERO CORP SCANBE DIV  
Classification: Small Quantity Generator  
  
Date form received by agency: 03/17/1994  
Facility name: ZERO CORP SCANBE DIV  
Site name: ZERO CORP/SCANBE DIV  
Classification: Large Quantity Generator  
  
Date form received by agency: 01/24/1992  
Facility name: ZERO CORP SCANBE DIV  
Site name: ZERO CORP/SCANBE DIV  
Classification: Large Quantity Generator  
  
Date form received by agency: 04/09/1990  
Facility name: ZERO CORP SCANBE DIV  
Site name: SCANBE UNIT OF ZERO CORPORATION  
Classification: Large Quantity Generator  
  
Date form received by agency: 08/18/1980  
Facility name: ZERO CORP SCANBE DIV  
Classification: Large Quantity Generator  
  
Violation Status: No violations found

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**I32**  
**SSE**  
**1/8-1/4**  
**0.179 mi.**  
**944 ft.**

**MICRO GAGE INC**  
**9537 TELSTAR AVE**  
**EL MONTE, CA 91731**

**Site 1 of 2 in cluster I**

**RCRA-SQG** **1000365891**  
**FINDS** **CAD066248287**  
**HAZNET**  
**WIP**

**Relative:**  
**Lower**

RCRA-SQG:

Date form received by agency: 09/01/1996  
Facility name: MICRO GAGE INC  
Facility address: 9537 TELSTAR AVE  
EL MONTE, CA 91731  
EPA ID: CAD066248287  
Mailing address: PO BOX 157  
ROSEMEAD, CA 91770

Contact: Not reported  
Contact address: Not reported

Contact country: Not reported

Contact telephone: Not reported

Contact email: Not reported

EPA Region: 09

Land type: Facility is not located on Indian land. Additional information is not known.

Classification: Small Small Quantity Generator

Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: TALMO ROBERT  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999

Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212

Legal status: Private

Owner/Operator Type: Owner

Owner/Op start date: Not reported

Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999

Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212

Legal status: Private

Owner/Operator Type: Operator

Owner/Op start date: Not reported

Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: Unknown

Mixed waste (haz. and radioactive): Unknown

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: Unknown

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MICRO GAGE INC (Continued)**

**1000365891**

Furnace exemption: Unknown  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 06/26/1981  
Facility name: MICRO GAGE INC  
Classification: Large Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 08/10/1993  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State Contractor/Grantee

FINDS:

Other Pertinent Environmental Activity Identified at Site

Registry ID: 110002654805

California - Hazardous Waste Tracking System - Datamart

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:

Gepaid: CAD066248287  
Contact: BRUCE TALMO/VICE PRESIDENT  
Telephone: 6264431741  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 157  
Mailing City, St, Zip: ROSEMEAD, CA 917700157  
Gen County: Los Angeles  
TSD EPA ID: CAD008302903  
TSD County: Los Angeles  
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)  
Disposal Method: H06  
Tons: 0.22  
Facility County: Los Angeles

Gepaid: CAD066248287

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MICRO GAGE INC (Continued)**

**1000365891**

Contact: MICRO GAGE  
Telephone: 8184431741  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 157  
Mailing City,St,Zip: ROSEMEAD, CA 917700157  
Gen County: Los Angeles  
TSD EPA ID: CAD008302903  
TSD County: Los Angeles  
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)  
Disposal Method: Recycler  
Tons: 2.2014  
Facility County: Los Angeles

Gepaid: CAD066248287  
Contact: MICRO GAGE  
Telephone: 8184431741  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 157  
Mailing City,St,Zip: ROSEMEAD, CA 917700157  
Gen County: Los Angeles  
TSD EPA ID: CAD097030993  
TSD County: Los Angeles  
Waste Category: Liquids with pH <UN-> 2  
Disposal Method: Recycler  
Tons: .2293  
Facility County: Los Angeles

Gepaid: CAD066248287  
Contact: MICRO GAGE  
Telephone: 8184431741  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 157  
Mailing City,St,Zip: ROSEMEAD, CA 917700157  
Gen County: Los Angeles  
TSD EPA ID: CAD097030993  
TSD County: Los Angeles  
Waste Category: Liquids with pH <UN-> 2  
Disposal Method: Treatment, Tank  
Tons: .2293  
Facility County: Los Angeles

Gepaid: CAD066248287  
Contact: MICRO GAGE  
Telephone: 8184431741  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 157  
Mailing City,St,Zip: ROSEMEAD, CA 917700157  
Gen County: Los Angeles  
TSD EPA ID: CAD008364432  
TSD County: Los Angeles  
Waste Category: Unspecified solvent mixture Waste  
Disposal Method: Recycler  
Tons: 1.3466

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MICRO GAGE INC (Continued)**

**1000365891**

Facility County: Los Angeles

[Click this hyperlink](#) while viewing on your computer to access 50 additional CA\_HAZNET: record(s) in the EDR Site Report.

WIP:

Region: 4  
File Number: 107.1210  
**File Status: Active**  
Staff: CORTEZ  
Facility Suite: Not reported

Region: 4  
File Number: 107.0955  
**File Status: Historical**  
Staff: UNIDENTIFIED  
Facility Suite: Not reported

**I33**  
**SSE**  
**1/8-1/4**  
**0.179 mi.**  
**944 ft.**

**EL MONTE INDUSTRIAL COMPLEX**  
**9537 TELSTAR AVE.**  
**EL MONTE, CA 91731**  
**Site 2 of 2 in cluster I**

**SLIC S106484602**  
**N/A**

**Relative:**  
**Lower**

SLIC:

Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 1987-11-30 00:00:00  
Global Id: SL603798792  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 34.068885  
Longitude: -118.063449  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.1210  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

**Actual:**  
**254 ft.**

**H34**  
**SSW**  
**1/8-1/4**  
**0.184 mi.**  
**970 ft.**

**EVANGELICAL CHURCH**  
**9364 TELSTAR AVE**  
**EL MONTE, CA 91731**  
**Site 2 of 3 in cluster H**

**SLIC S106484648**  
**WIP N/A**

**Relative:**  
**Lower**

SLIC:

Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 2000-04-01 00:00:00  
Global Id: SL603798841  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 34.068887

**Actual:**  
**254 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EVANGELICAL CHURCH (Continued)**

**S106484648**

Longitude: -118.067827  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.5883  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

WIP:

Region: 4  
File Number: 107.5883  
**File Status: Active**  
Staff: CORTEZ  
Facility Suite: Not reported

**H35**  
**SW**  
**1/8-1/4**  
**0.186 mi.**  
**984 ft.**

**LOGOS EVANGELICAL SEMINARY**  
**9358 TELSTAR AVE**  
**EL MONTE, CA 91731**  
**Site 3 of 3 in cluster H**

**SLIC S106484672**  
**WIP N/A**

**Relative:**  
**Lower**

SLIC:

Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 2000-04-01 00:00:00  
Global Id: SL603798865  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 34.068887  
Longitude: -118.067827  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.5946  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

**Actual:**  
**254 ft.**

WIP:

Region: 4  
File Number: 107.5946  
**File Status: Active**  
Staff: CORTEZ  
Facility Suite: Not reported

MAP FINDINGS

Map ID Direction Distance Elevation		Database(s)	EDR ID Number EPA ID Number
--	--	-------------	--------------------------------

<b>J36</b> <b>SW</b> <b>1/8-1/4</b> <b>0.190 mi.</b> <b>1003 ft.</b>	<b>DARDANELLA ELECTRIC CORP/DECO</b> <b>9351 TELSTAR AVE</b> <b>EL MONTE, CA 91731</b>  <b>Site 1 of 2 in cluster J</b>	<b>WIP</b>	<b>S106765285</b> <b>N/A</b>
--	---	------------	---------------------------------

<b>Relative:</b> <b>Lower</b>  <b>Actual:</b> <b>254 ft.</b>	<b>WIP:</b> Region: 4 File Number: 107.0443 <b>File Status: Historical</b> Staff: CORTEZ Facility Suite: Not reported
--	--

<b>37</b> <b>NE</b> <b>1/8-1/4</b> <b>0.191 mi.</b> <b>1008 ft.</b>	<b>ROBERT AND DEBORAH GARCIA</b> <b>9530 OLNEY ST</b> <b>ROSEMEAD, CA 91770</b>	<b>HAZNET</b>	<b>1010561813</b> <b>RCRA-NonGen CAP000183509</b>
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<b>Relative:</b> <b>Higher</b>  <b>Actual:</b> <b>265 ft.</b>	<b>HAZNET:</b> Gepaid: CAP000183509 Contact: ROBERT GARCIA Telephone: 6265828606 Facility Addr2: Not reported Mailing Name: Not reported Mailing Address: 9530 OLNEY ST Mailing City,St,Zip: ROSEMEAD, CA 917700000 Gen County: Los Angeles TSD EPA ID: CAD028409019 TSD County: Los Angeles Waste Category: Other organic solids Disposal Method: H141 Tons: 0.08 Facility County: Los Angeles
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**RCRA-NonGen:**

Date form received by agency: 08/05/2007

Facility name: ROBERT AND DEBORAH GARCIA

Facility address: 9530 OLNEY ST  
ROSEMEAD, CA 91770

EPA ID: CAP000183509

Contact: ROBERT GARCIA

Contact address: 9530 OLNEY ST  
ROSEMEAD, CA 91770

Contact country: US

Contact telephone: 626-582-8606

Contact email: Not reported

EPA Region: 09

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

**Owner/Operator Summary:**

Owner/operator name: ROBERT AND DEBORAH GARCIA

Owner/operator address: Not reported  
Not reported

Owner/operator country: Not reported

Owner/operator telephone: Not reported

Legal status: Private

Owner/Operator Type: Operator

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROBERT AND DEBORAH GARCIA (Continued)**

**1010561813**

Owner/Op start date: 01/01/1984  
Owner/Op end date: Not reported  
  
Owner/operator name: ROBERT GARCIA  
Owner/operator address: 9530 OLNEY ST  
ROSEMEAD, CA 91770  
  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 01/01/1984  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 04/18/2007  
Facility name: ROBERT AND DEBORAH GARCIA  
Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: D008  
Waste name: LEAD  
  
Violation Status: No violations found

**K38**  
**SE**  
**1/8-1/4**  
**0.205 mi.**  
**1083 ft.**

**PAC FAB INC**  
**9626 TELSTAR**  
**EL MONTE, CA 91731**  
**Site 1 of 2 in cluster K**

**RCRA-SQG 1000113824**  
**FINDS CAD981389083**  
**HAZNET**

**Relative:**  
**Lower**

RCRA-SQG:  
Date form received by agency: 09/01/1996  
Facility name: PAC FAB INC  
Facility address: 9626 TELSTAR  
EL MONTE, CA 91731  
  
EPA ID: CAD981389083  
Mailing address: P O BOX 4999  
EL MONTE, CA 91734  
  
Contact: Not reported

**Actual:**  
**255 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PAC FAB INC (Continued)**

**1000113824**

Contact address: Not reported  
Not reported  
Contact country: Not reported  
Contact telephone: Not reported  
Contact email: Not reported  
EPA Region: 09  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: NOT REQUIRED  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: ESSEF CORP  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: Unknown  
Mixed waste (haz. and radioactive): Unknown  
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: Unknown  
Furnace exemption: Unknown  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 02/20/1986  
Facility name: PAC FAB INC  
Classification: Large Quantity Generator

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PAC FAB INC (Continued)**

**1000113824**

Violation Status: No violations found

**FINDS:**

Other Pertinent Environmental Activity Identified at Site

Registry ID: 110002690785

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**HAZNET:**

Gepaid: CAD981389083  
Contact: PAC FAB INC  
Telephone: 0000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 9626 TELSTAR AVE  
Mailing City,St,Zip: EL MONTE, CA 917313004  
Gen County: Los Angeles  
TSD EPA ID: CAD097030993  
TSD County: Los Angeles  
Waste Category: Liquids with pH <UN-> 2  
Disposal Method: Treatment, Tank  
Tons: 4.5870  
Facility County: Los Angeles

Gepaid: CAD981389083  
Contact: PAC FAB INC  
Telephone: 0000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 9626 TELSTAR AVE  
Mailing City,St,Zip: EL MONTE, CA 917313004  
Gen County: Los Angeles  
TSD EPA ID: CAD097030993  
TSD County: Los Angeles  
Waste Category: Alkaline solution without metals (pH > 12.5)  
Disposal Method: Recycler  
Tons: 10.4250  
Facility County: Los Angeles

Gepaid: CAD981389083  
Contact: PAC FAB INC  
Telephone: 0000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 9626 TELSTAR AVE  
Mailing City,St,Zip: EL MONTE, CA 917313004  
Gen County: Los Angeles  
TSD EPA ID: CAD097030993  
TSD County: Los Angeles  
Waste Category: Alkaline solution without metals (pH > 12.5)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PAC FAB INC (Continued)**

**1000113824**

Disposal Method: Treatment, Tank  
Tons: 6.2550  
Facility County: Los Angeles  
  
Gepaid: CAD981389083  
Contact: PAC FAB INC  
Telephone: 0000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 9626 TELSTAR AVE  
Mailing City,St,Zip: EL MONTE, CA 917313004  
Gen County: Los Angeles  
TSD EPA ID: CAD097030993  
TSD County: Los Angeles  
Waste Category: Liquids with nickel > 134 mg/l  
Disposal Method: Recycler  
Tons: .2293  
Facility County: Los Angeles

Gepaid: CAD981389083  
Contact: PAC FAB INC  
Telephone: 0000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 9626 TELSTAR AVE  
Mailing City,St,Zip: EL MONTE, CA 917313004  
Gen County: Los Angeles  
TSD EPA ID: CAD097030993  
TSD County: Los Angeles  
Waste Category: Liquids with pH <UN-> 2  
Disposal Method: Recycler  
Tons: 6.6720  
Facility County: Los Angeles

[Click this hyperlink](#) while viewing on your computer to access 5 additional CA\_HAZNET: record(s) in the EDR Site Report.

**K39  
SE  
1/8-1/4  
0.205 mi.  
1083 ft.**

**PACIFIC FABRICATION CO  
9626 TELSTAR AV  
EL MONTE, CA 91731**

**Site 2 of 2 in cluster K**

**SLIC S106484557  
EMI N/A  
WIP**

**Relative:  
Lower**

SLIC:  
Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 1987-05-20 00:00:00  
Global Id: SL603798744  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 34.069396  
Longitude: -118.059171  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.0441  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply

**Actual:  
255 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PACIFIC FABRICATION CO (Continued)**

**S106484557**

Potential Contaminants of Concern: Not reported  
Site History: Not reported

EMI:

Year: 1987  
County Code: 19  
Air Basin: SC  
Facility ID: 6907  
Air District Name: SC  
SIC Code: 3531  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1990  
County Code: 19  
Air Basin: SC  
Facility ID: 6907  
Air District Name: SC  
SIC Code: 3469  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

WIP:

Region: 4  
File Number: 107.0441  
**File Status: Active**  
Staff: CORTEZ  
Facility Suite: Not reported

**J40**  
**SW**  
**1/8-1/4**  
**0.205 mi.**  
**1085 ft.**  
**AVNET**  
**9320 TELSTAR AVE**  
**EL MONTE, CA 91731**  
**Site 2 of 2 in cluster J**

**SLIC** **S106484643**  
**WIP** **N/A**

**Relative:** SLIC:  
**Lower** Region: STATE  
**Facility Status:** **Open - Site Assessment**  
**Actual:** Status Date: 1999-09-27 00:00:00  
**255 ft.** Global Id: SL603798835  
Lead Agency: LOS ANGELES RWQCB (REGION 4)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

AVNET (Continued)

S106484643

Lead Agency Case Number: Not reported  
Latitude: 34.068887  
Longitude: -118.067827  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.5870  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

WIP:

Region: 4  
File Number: 107.5870  
**File Status: Active**  
Staff: CORTEZ  
Facility Suite: Not reported

L41  
SW  
1/8-1/4  
0.207 mi.  
1093 ft.

**FORMER AEROJET SITE**  
**9319 TELSTAR AVE**  
**EL MONTE, CA**  
**Site 1 of 2 in cluster L**

**SLIC S106484558**  
**WIP N/A**

**Relative:**  
**Lower**

SLIC:

Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 1987-06-15 00:00:00  
Global Id: SL603798745  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 34.068887  
Longitude: -118.067827  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.0444  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

**Actual:**  
**255 ft.**

WIP:

Region: 4  
File Number: 107.5871  
**File Status: Active**  
Staff: DRASMUSS  
Facility Suite: Not reported

Region: 4  
File Number: 107.0444  
**File Status: Active**  
Staff: CORTEZ  
Facility Suite: Not reported



MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**M44**      **9150 FLAIR, LLC**  
**West**      **9150 FLAIR DR**  
**1/8-1/4**      **EL MONTE, CA 91731**  
**0.223 mi.**  
**1180 ft.**      **Site 1 of 3 in cluster M**

**UST**      **U003778191**  
**N/A**

**Relative:**      **UST:**  
**Lower**      Global ID:      2840  
                  Latitude:      34.07185  
**Actual:**      Longitude:      -118.06773  
**259 ft.**

**M45**      **SO COAST AIR QUALITY MGT DIST**  
**West**      **9150 FLAIR DR**  
**1/8-1/4**      **EL MONTE, CA**  
**0.223 mi.**  
**1180 ft.**      **Site 2 of 3 in cluster M**

**HIST UST**      **U001569358**  
**EMI**      **N/A**  
**WIP**  
**SWEEPS UST**

**Relative:**      **HIST UST:**  
**Lower**      Region:      STATE  
                  Facility ID:      00000064181  
**Actual:**      Facility Type:      Gas Station  
**259 ft.**      Other Type:      Not reported  
                  Total Tanks:      0002  
                  Contact Name:      MICHAEL RANGEL  
                  Telephone:      8185726336  
                  Owner Name:      SOUTH COAST AIR QUALITY MANAGE  
                  Owner Address:      150 FLAIR DRIVE  
                  Owner City,St,Zip:      EL MONTE, CA 91731

Tank Num:      001  
 Container Num:      #1  
 Year Installed:      Not reported  
 Tank Capacity:      00005000  
 Tank Used for:      PRODUCT  
 Type of Fuel:      UNLEADED  
 Tank Construction:      Not reported  
 Leak Detection:      None

Tank Num:      002  
 Container Num:      #2  
 Year Installed:      1984  
 Tank Capacity:      00010000  
 Tank Used for:      PRODUCT  
 Type of Fuel:      UNLEADED  
 Tank Construction:      1/4 inches  
 Leak Detection:      None

**EMI:**  
 Year:      1987  
 County Code:      19  
 Air Basin:      SC  
 Facility ID:      29085  
 Air District Name:      SC  
 SIC Code:      3731  
 Air District Name:      SOUTH COAST AQMD  
 Community Health Air Pollution Info System:      Not reported  
 Consolidated Emission Reporting Rule:      Not reported  
 Total Organic Hydrocarbon Gases Tons/Yr:      0  
 Reactive Organic Gases Tons/Yr:      0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

SO COAST AIR QUALITY MGT DIST (Continued)

U001569358

Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1990  
County Code: 19  
Air Basin: SC  
Facility ID: 29085  
Air District Name: SC  
SIC Code: 0  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 1  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

WIP:

Region: 4  
File Number: 109.6271  
**File Status: Historical**  
Staff: YRONG  
Facility Suite: A

SWEEPS UST:

Status: A  
Comp Number: 10161  
Number: 9  
Board Of Equalization: 44-008732  
Ref Date: 06-30-89  
Act Date: Not reported  
Created Date: 06-30-89  
Tank Status: A  
Owner Tank Id: Not reported  
Swrcb Tank Id: 19-000-010161-000001  
Actv Date: 06-30-89  
Capacity: Not reported  
Tank Use: UNKNOWN  
Stg: W  
Content: Not reported  
Number Of Tanks: 2

Status: A  
Comp Number: 10161  
Number: 9  
Board Of Equalization: 44-008732  
Ref Date: 06-30-89  
Act Date: Not reported  
Created Date: 06-30-89  
Tank Status: A

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SO COAST AIR QUALITY MGT DIST (Continued)**

**U001569358**

Owner Tank Id: Not reported  
Swrcb Tank Id: 19-000-010161-000002  
Actv Date: 06-30-89  
Capacity: Not reported  
Tank Use: UNKNOWN  
Stg: W  
Content: Not reported  
Number Of Tanks: Not reported

**M46**  
**West**  
**1/8-1/4**  
**0.223 mi.**  
**1180 ft.**

**SOUTH COAST AIR QUALITY MGMT DIS**  
**9150 FLAIR DR**  
**EL MONTE, CA 91731**  
**Site 3 of 3 in cluster M**

**RCRA-SQG** **1000405629**  
**FINDS** **CAD981457989**  
**HAZNET**

**Relative:**  
**Lower**

**RCRA-SQG:**

Date form received by agency: 04/07/1986  
Facility name: SOUTH COAST AIR QUALITY MGMT DIS  
Facility address: 9150 FLAIR DR  
EL MONTE, CA 91731  
EPA ID: CAD981457989  
Mailing address: FLAIR DR  
EL MONTE, CA 91731  
Contact: ENVIRONMENTAL MANAGER  
Contact address: 9150 FLAIR DR  
EL MONTE, CA 91731  
Contact country: US  
Contact telephone: (818) 572-6479  
Contact email: Not reported  
EPA Region: 09  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

**Actual:**  
**259 ft.**

**Owner/Operator Summary:**

Owner/operator name: BUILDING CORP  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported  
  
Owner/operator name: NOT REQUIRED  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH COAST AIR QUALITY MGMT DIS (Continued)**

**1000405629**

Handler Activities Summary:

U.S. importer of hazardous waste: Unknown  
Mixed waste (haz. and radioactive): Unknown  
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: Unknown  
Furnace exemption: Unknown  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site

Registry ID: 110002714233

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HAZNET:

Gepaid: CAD981457989  
Contact: SOUTH COAST AIR QUALITY  
Telephone: 8185726479  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 9150 FLAIR DR  
Mailing City,St,Zip: EL MONTE, CA 917312804  
Gen County: Los Angeles  
TSD EPA ID: CAT080031628  
TSD County: Kern  
Waste Category: Unspecified solvent mixture Waste  
Disposal Method: Recycler  
Tons: 1.4595  
Facility County: Los Angeles

Gepaid: CAD981457989  
Contact: SOUTH COAST AIR QUALITY  
Telephone: 8185726479  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 9150 FLAIR DR  
Mailing City,St,Zip: EL MONTE, CA 917312804  
Gen County: Los Angeles

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH COAST AIR QUALITY MGMT DIS (Continued)**

**1000405629**

TSD EPA ID: CAD008302903  
TSD County: Los Angeles  
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)  
Disposal Method: Recycler  
Tons: .6255  
Facility County: Los Angeles

**47**  
**ESE**  
**1/8-1/4**  
**0.226 mi.**  
**1191 ft.**

**KELLY PAPER CO.**  
**9640 TELSTAR AVE**  
**EL MONTE, CA 91731**

**SLIC S106484598**  
**WIP N/A**

**Relative:**  
**Lower**

**SLIC:**  
Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 1987-12-27 00:00:00  
Global Id: SL603798788  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 34.069396  
Longitude: -118.059171  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.1169  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

**Actual:**  
**255 ft.**

**WIP:**  
Region: 4  
File Number: 107.1169  
**File Status: Active**  
Staff: CORTEZ  
Facility Suite: Not reported  
  
Region: 4  
File Number: 107.1442  
**File Status: Historical**  
Staff: BPONEK  
Facility Suite: Not reported

**N48**  
**South**  
**1/8-1/4**  
**0.227 mi.**  
**1201 ft.**

**FLAIR COMMERCE CENTER**  
**9420 TELSTAR AVE**  
**EL MONTE, CA 91731**  
**Site 1 of 6 in cluster N**

**SLIC S106484658**  
**WIP N/A**

**Relative:**  
**Lower**

**SLIC:**  
Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 2000-04-01 00:00:00  
Global Id: SL603798851  
Lead Agency: LOS ANGELES RWQCB (REGION 4)

**Actual:**  
**253 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FLAIR COMMERCE CENTER (Continued)**

**S106484658**

Lead Agency Case Number: Not reported  
Latitude: 34.068885  
Longitude: -118.063449  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.5920  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

WIP:

Region: 4  
File Number: 107.5920  
**File Status: Active**  
Staff: CORTEZ  
Facility Suite: Not reported

**N49**  
South  
1/8-1/4  
0.227 mi.  
1201 ft.

**MITE CORPORATION**  
**9440 TELSTAR AVE**  
**EL MONTE, CA 91731**  
**Site 2 of 6 in cluster N**

**WIP S106765785**  
**N/A**

**Relative:**  
**Lower**

WIP:

Region: 4  
File Number: 107.1226  
**File Status: Historical**  
Staff: BPONEK  
Facility Suite: 3

**Actual:**  
**253 ft.**

**N50**  
South  
1/8-1/4  
0.227 mi.  
1201 ft.

**GESTETNER CORP**  
**9500 TELSTAR AVE**  
**EL MONTE, CA 91733**  
**Site 3 of 6 in cluster N**

**FINDS 1000403909**  
**RCRA-NonGen CAD981678535**

**Relative:**  
**Lower**

FINDS:

Other Pertinent Environmental Activity Identified at Site

**Actual:**  
**253 ft.**

Registry ID: 110002748224

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RCRA-NonGen:

Date form received by agency: 09/26/1986  
Facility name: GESTETNER CORP  
Facility address: 9500 TELSTAR AVE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GESTETNER CORP (Continued)**

**1000403909**

EPA ID: EL MONTE, CA 91733  
CAD981678535  
Mailing address: TELSTAR AVE  
EL MONTE, CA 91733  
Contact: ENVIRONMENTAL MANAGER  
Contact address: 9500 TELSTAR AVE  
EL MONTE, CA 91733  
Contact country: US  
Contact telephone: (818) 350-8826  
Contact email: Not reported  
EPA Region: 09  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: FLAIR MONTIBELLO  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: Unknown  
Mixed waste (haz. and radioactive): Unknown  
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: Unknown  
Furnace exemption: Unknown  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Violation Status: No violations found

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**N51**  
 South  
 1/8-1/4  
 0.227 mi.  
 1201 ft.

**ORGANON DIAGNOSTICS**  
**9440 TELSTAR AVE**  
**EL MONTE, CA 91731**  
 Site 4 of 6 in cluster N

**WIP S106765850**  
 N/A

**Relative:**  
**Lower**

WIP:  
 Region: 4  
 File Number: 107.1325  
**File Status: Historical**  
 Staff: BPONEK  
 Facility Suite: 7

**Actual:**  
 253 ft.

**N52**  
 South  
 1/8-1/4  
 0.227 mi.  
 1201 ft.

**A D PATHLABS LOS ANGELES**  
**9440 TELSTAR AVENUE**  
**EL MONTE, CA 91731**  
 Site 5 of 6 in cluster N

**RCRA-SQG 1000594704**  
**FINDS CAD983585738**  
**HAZNET**

**Relative:**  
**Lower**

RCRA-SQG:  
 Date form received by agency: 09/19/2001  
 Facility name: A D PATHLABS LOS ANGELES  
 Facility address: 9440 TELSTAR AVE  
 STE 7  
 EL MONTE, CA 91731  
 EPA ID: CAD983585738  
 Contact: SANDRA ORZEL  
 Contact address: 9440 TELSTAR AVE STE 7  
 EL MONTE, CA 91731  
 Contact country: US  
 Contact telephone: (949) 250-3122  
 Contact email: Not reported  
 EPA Region: 09  
 Classification: Small Small Quantity Generator  
 Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

**Actual:**  
 253 ft.

**Owner/Operator Summary:**

Owner/operator name: A D PATHLABS  
 Owner/operator address: 1601 DOVE ST STE 105  
 NEWPORT BEACH, CA 92660  
 Owner/operator country: Not reported  
 Owner/operator telephone: (949) 225-0540  
 Legal status: Private  
 Owner/Operator Type: Owner  
 Owner/Op start date: Not reported  
 Owner/Op end date: Not reported  
 Owner/operator name: NOT REQUIRED  
 Owner/operator address: NOT REQUIRED  
 NOT REQUIRED, ME 99999  
 Owner/operator country: Not reported  
 Owner/operator telephone: (415) 555-1212  
 Legal status: Private  
 Owner/Operator Type: Operator  
 Owner/Op start date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A D PATHLABS LOS ANGELES (Continued)**

**1000594704**

Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: Unknown  
Mixed waste (haz. and radioactive): Unknown  
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: Unknown  
Furnace exemption: Unknown  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Hazardous Waste Summary:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002  
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: F003  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site

Registry ID: 110002846653

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A D PATHLABS LOS ANGELES (Continued)**

**1000594704**

California - Hazardous Waste Tracking System - Datamart

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:

Gepaid: CAD983585738  
Contact: SANDRA ORZEL/VP OPERATIONS/DEV  
Telephone: 6264432522  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 9440 TELSTAR AVE STE 7  
Mailing City,St,Zip: EL MONTE, CA 917310000  
Gen County: Los Angeles  
TSD EPA ID: CAD008252405  
TSD County: Los Angeles  
Waste Category: Not reported  
Disposal Method: Recycler  
Tons: Not reported  
Facility County: Not reported

Gepaid: CAD983585738  
Contact: SANDRA ORZEL/VP OPERATIONS/DEV  
Telephone: 6264432522  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 9440 TELSTAR AVE STE 7  
Mailing City,St,Zip: EL MONTE, CA 917310000  
Gen County: Los Angeles  
TSD EPA ID: CAD008252405  
TSD County: Los Angeles  
Waste Category: Not reported  
Disposal Method: Recycler  
Tons: Not reported  
Facility County: Not reported

Gepaid: CAD983585738  
Contact: SANDRA ORZEL/VP OPERATIONS/DEV  
Telephone: 6264432522  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 9440 TELSTAR AVE STE 7  
Mailing City,St,Zip: EL MONTE, CA 917310000  
Gen County: Los Angeles  
TSD EPA ID: CAD008252405  
TSD County: Los Angeles  
Waste Category: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)  
Disposal Method: Recycler  
Tons: 0.45  
Facility County: Los Angeles

Gepaid: CAD983585738

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A D PATHLABS LOS ANGELES (Continued)**

**1000594704**

Contact: SANDRA ORZEL/VP OPERATIONS/DEV  
Telephone: 6264432522  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 9440 TELSTAR AVE STE 7  
Mailing City,St,Zip: EL MONTE, CA 917310000  
Gen County: Los Angeles  
TSD EPA ID: CAT080013352  
TSD County: Los Angeles  
Waste Category: Unspecified solvent mixture Waste  
Disposal Method: H061  
Tons: 0.02  
Facility County: Los Angeles

Gepaid: CAD983585738  
Contact: SANDRA ORZEL/VP OPERATIONS/DEV  
Telephone: 6264432522  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 9440 TELSTAR AVE STE 7  
Mailing City,St,Zip: EL MONTE, CA 917310000  
Gen County: Los Angeles  
TSD EPA ID: CAD008364432  
TSD County: Los Angeles  
Waste Category: Laboratory waste chemicals  
Disposal Method: H141  
Tons: 0.03  
Facility County: Los Angeles

[Click this hyperlink](#) while viewing on your computer to access additional CA\_HAZNET: detail in the EDR Site Report.

**N53**  
**South**  
**1/8-1/4**  
**0.227 mi.**  
**1201 ft.**

**BIOSTAR MICROTECH USA CORP**  
**9460 TELSTAR AVE UNIT 5**  
**EL MONTE, CA 91731**

**RCRA-SQG 1000169755**  
**FINDS CAD981391865**

**Site 6 of 6 in cluster N**

**Relative:**  
**Lower**

RCRA-SQG:

Date form received by agency: 09/01/1996

Facility name: BIOSTAR MICROTECH USA CORP  
Facility address: 9460 TELSTAR AVE UNIT 5  
EL MONTE, CA 91731

EPA ID: CAD981391865

Contact: Not reported  
Contact address: Not reported  
Not reported

Contact country: Not reported  
Contact telephone: Not reported  
Contact email: Not reported

EPA Region: 09

Classification: Small Small Quantity Generator

Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BIOSTAR MICROTECH USA CORP (Continued)**

**1000169755**

Owner/Operator Summary:

Owner/operator name: CHUNG MING WANG  
Owner/operator address: 9460 TELSTAR AVE UNIT 5  
EL MONTE, CA 91731  
Owner/operator country: Not reported  
Owner/operator telephone: (818) 443-4023  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: Unknown  
Mixed waste (haz. and radioactive): Unknown  
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: Unknown  
Furnace exemption: Unknown  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 04/09/1993  
Facility name: BIOSTAR MICROTECH USA CORP  
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site

Registry ID: 110002691855

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BIOSTAR MICROTECH USA CORP (Continued)**

1000169755

corrective action activities required under RCRA.

54  
WNW  
1/8-1/4  
0.242 mi.  
1277 ft.

**FORMER AEROJET-GENERAL CORP.**  
**9200 E FLAIR DR**  
**EL MONTE, CA**

WIP S107677822  
N/A

Relative:  
Higher

WIP:  
Region: 4  
File Number: 107.5872  
**File Status: Active**  
Staff: CORTEZ  
Facility Suite: Not reported

Actual:  
263 ft.

O55  
ESE  
1/8-1/4  
0.244 mi.  
1289 ft.

**L. A. WEB OFFSET PRINTING, INC**  
**9639 TELSTAR AVE.**  
**EL MONTE, CA 91731**  
**Site 1 of 2 in cluster O**

SLIC S106484664  
N/A

Relative:  
Lower

SLIC:  
Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 2000-04-01 00:00:00  
Global Id: SL603798857  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 34.069396  
Longitude: -118.059171  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.5932  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

Actual:  
255 ft.

P56  
SW  
1/8-1/4  
0.246 mi.  
1299 ft.

**ENVIROGENICS SYSTEMS COMPANY**  
**9255 TELSTAR AVE.**  
**EL MONTE, CA 91731**  
**Site 1 of 3 in cluster P**

SLIC S106484530  
N/A

Relative:  
Lower

SLIC:  
Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 1987-01-12 00:00:00  
Global Id: SL603798714  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 34.068887  
Longitude: -118.067827

Actual:  
255 ft.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ENVIROGENICS SYSTEMS COMPANY (Continued)**

**S106484530**

Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.0130  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

**P57  
SW  
1/8-1/4  
0.246 mi.  
1299 ft.**

**ENVIROGENICS SYSTS CO  
9255 TELSTAR AVE  
EL MONTE, CA 91731  
Site 2 of 3 in cluster P**

**RCRA-SQG 1000261416  
FINDS CAD030389159  
CA FID UST  
EMI  
WIP  
SWEEPS UST**

**Relative:  
Lower**

RCRA-SQG:

**Actual:  
255 ft.**

Date form received by agency: 09/01/1996  
Facility name: ENVIROGENICS SYSTS CO  
Facility address: 9255 TELSTAR AVE  
EL MONTE, CA 91731  
EPA ID: CAD030389159  
Mailing address: 9255 TELSTAR AV  
EL MONTE, CA 91731  
Contact: Not reported  
Contact address: Not reported  
Not reported  
Contact country: Not reported  
Contact telephone: Not reported  
Contact email: Not reported  
EPA Region: 09  
Land type: Facility is not located on Indian land. Additional information is not known.  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: NOT REQUIRED  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Private  
Owner/Operator Type: Operator

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ENVIROGENICS SYSTS CO (Continued)**

**1000261416**

Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: Unknown  
Mixed waste (haz. and radioactive): Unknown  
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: Unknown  
Furnace exemption: Unknown  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 02/04/1982  
Facility name: ENVIROGENICS SYSTS CO  
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:

Regulation violated: FR - 262.10-12.A  
Area of violation: Generators - General  
Date violation determined: 03/08/1985  
Date achieved compliance: 03/08/1990  
Violation lead agency: EPA  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 03/08/1985  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Generators - General  
Date achieved compliance: 03/08/1990  
Evaluation lead agency: EPA

FINDS:

Other Pertinent Environmental Activity Identified at Site

Registry ID: 110002642739

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport,

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ENVIROGENICS SYSTS CO (Continued)**

**1000261416**

and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CA FID UST:

Facility ID: 19029046  
Regulated By: UTNKA  
Regulated ID: 00016874  
Cortese Code: Not reported  
SIC Code: Not reported  
Facility Phone: 8180000000  
Mail To: Not reported  
Mailing Address: 9255 TELSTAR AVE  
Mailing Address 2: Not reported  
Mailing City,St,Zip: EL MONTE  
Contact: Not reported  
Contact Phone: Not reported  
DUNs Number: Not reported  
NPDES Number: Not reported  
EPA ID: Not reported  
Comments: Not reported  
Status: Active

EMI:

Year: 1987  
County Code: 19  
Air Basin: SC  
Facility ID: 58627  
Air District Name: SC  
SIC Code: 9999  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 1  
Reactive Organic Gases Tons/Yr: 1  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

WIP:

Region: 4  
File Number: 107.0130  
**File Status: Active**  
Staff: CORTEZ  
Facility Suite: Not reported

SWEEPS UST:

Status: A  
Comp Number: 12433  
Number: 9  
Board Of Equalization: Not reported  
Ref Date: 06-30-89

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ENVIROGENICS SYSTS CO (Continued)**

**1000261416**

Act Date: Not reported  
Created Date: 06-30-89  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: Not reported  
Actv Date: Not reported  
Capacity: Not reported  
Tank Use: Not reported  
Stg: Not reported  
Content: Not reported  
Number Of Tanks: Not reported

**P58  
SW  
1/8-1/4  
0.246 mi.  
1299 ft.**

**ENVIROGENCIS SYSTEMS COMPANY  
9255 TELSTAR AVE  
EL MONTE, CA 91731**

**HIST UST U001569347  
N/A**

**Site 3 of 3 in cluster P**

**Relative:  
Lower**

HIST UST:

Region: STATE  
Facility ID: 00000016874  
Facility Type: Other  
Other Type: MEMBRANE PRODUCTION  
Total Tanks: 0003  
Contact Name: OSEI SIRIBOE  
Telephone: 8185739220  
Owner Name: SOGEX MANAGEMENT INTERNATIONAL  
Owner Address: 15-25 BLVD. DE L'AMIRAL BRUIX  
Owner City,St,Zip: 75116 PARIS, FR ANCE

**Actual:  
255 ft.**

Tank Num: 001  
Container Num: 1  
Year Installed: 1981  
Tank Capacity: 00002000  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Tank Construction: 0.22 inches  
Leak Detection: None

Tank Num: 002  
Container Num: 2  
Year Installed: 1981  
Tank Capacity: 00001500  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: None

Tank Num: 003  
Container Num: 3  
Year Installed: 1981  
Tank Capacity: 00001500  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: None

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**O59**      **AXT, CORP.**  
**ESE**      **9650 TELSTAR AVE.**  
**1/4-1/2**    **EL MONTE, CA 91731**  
**0.256 mi.**  
**1351 ft.**    **Site 2 of 2 in cluster O**

**SLIC**    **S106484670**  
**N/A**

**Relative:**      **SLIC:**  
**Lower**            Region:                      STATE  
                         **Facility Status:**        **Open - Site Assessment**  
**Actual:**        Status Date:                2000-04-01 00:00:00  
**255 ft.**            Global Id:                    SL603798863  
                         Lead Agency:                LOS ANGELES RWQCB (REGION 4)  
                         Lead Agency Case Number: Not reported  
                         Latitude:                     34.069396  
                         Longitude:                  -118.059171  
                         Case Type:                  Cleanup Program Site  
                         Case Worker:                Not reported  
                         Local Agency:               Not reported  
                         RB Case Number:          107.5944  
                         File Location:               Not reported  
                         Potential Media Affected: Aquifer used for drinking water supply  
                         Potential Contaminants of Concern: Not reported  
                         Site History:                Not reported

**Q60**      **MARSHALL INDUSTRIES (AVNET)**  
**ESE**      **9661 TELSTAR AVE**  
**1/4-1/2**    **EL MONTE, CA 91731**  
**0.267 mi.**  
**1408 ft.**    **Site 1 of 3 in cluster Q**

**SLIC**    **S106484666**  
**WIP**     **N/A**

**Relative:**      **SLIC:**  
**Lower**            Region:                      STATE  
                         **Facility Status:**        **Open - Site Assessment**  
**Actual:**        Status Date:                2000-04-01 00:00:00  
**255 ft.**            Global Id:                    SL603798859  
                         Lead Agency:                LOS ANGELES RWQCB (REGION 4)  
                         Lead Agency Case Number: Not reported  
                         Latitude:                     34.069396  
                         Longitude:                  -118.059171  
                         Case Type:                  Cleanup Program Site  
                         Case Worker:                Not reported  
                         Local Agency:               Not reported  
                         RB Case Number:          107.5936  
                         File Location:               Not reported  
                         Potential Media Affected: Aquifer used for drinking water supply  
                         Potential Contaminants of Concern: Not reported  
                         Site History:                Not reported

**WIP:**  
Region:            4  
File Number:      107.5936  
**File Status:**    **Active**  
Staff:              CORTEZ  
Facility Suite:    Not reported

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**Q61**      **DEMETER TECHNOLOGIES, INC.**  
**ESE**      **9654 TELSTAR AVE**  
**1/4-1/2**    **EL MONTE, CA 91731**  
**0.270 mi.**  
**1428 ft.**    **Site 2 of 3 in cluster Q**

**SLIC**    **S106484669**  
**WIP**     **N/A**

**Relative:**      **SLIC:**  
**Lower**          Region:                      STATE  
                      **Facility Status:**      **Open - Site Assessment**  
**Actual:**      Status Date:                2000-04-01 00:00:00  
**255 ft.**        Global Id:                    SL603798862  
                      Lead Agency:                LOS ANGELES RWQCB (REGION 4)  
                      Lead Agency Case Number: Not reported  
                      Latitude:                    34.069396  
                      Longitude:                  -118.059171  
                      Case Type:                  Cleanup Program Site  
                      Case Worker:                Not reported  
                      Local Agency:                Not reported  
                      RB Case Number:            107.5943  
                      File Location:                Not reported  
                      Potential Media Affected:    Aquifer used for drinking water supply  
                      Potential Contaminants of Concern: Not reported  
                      Site History:                Not reported

**WIP:**  
Region:                      4  
File Number:                107.5943  
**File Status:**            **Active**  
Staff:                        CORTEZ  
Facility Suite:                Not reported

**Q62**      **PC PLUS CORP./CROSS OCEAN**  
**ESE**      **9674 TELSTAR AVE**  
**1/4-1/2**    **EL MONTE, CA 91731**  
**0.282 mi.**  
**1490 ft.**    **Site 3 of 3 in cluster Q**

**SLIC**    **S106484599**  
**WIP**     **N/A**

**Relative:**      **SLIC:**  
**Lower**          Region:                      STATE  
                      **Facility Status:**      **Open - Site Assessment**  
**Actual:**      Status Date:                1987-11-30 00:00:00  
**256 ft.**        Global Id:                    SL603798789  
                      Lead Agency:                LOS ANGELES RWQCB (REGION 4)  
                      Lead Agency Case Number: Not reported  
                      Latitude:                    34.070484  
                      Longitude:                  -118.056481  
                      Case Type:                  Cleanup Program Site  
                      Case Worker:                Not reported  
                      Local Agency:                Not reported  
                      RB Case Number:            107.1176  
                      File Location:                Not reported  
                      Potential Media Affected:    Aquifer used for drinking water supply  
                      Potential Contaminants of Concern: Not reported  
                      Site History:                Not reported

**WIP:**  
Region:                      4  
File Number:                107.1176  
**File Status:**            **Active**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PC PLUS CORP./CROSS OCEAN (Continued)**

**S106484599**

Staff: CORTEZ  
Facility Suite: Not reported

**63**  
**WSW**  
**1/4-1/2**  
**0.282 mi.**  
**1491 ft.**

**THRIFTY ICE CREAM**  
**9200 TELSTAR AVE.**  
**EL MONTE, CA 91731**

**SLIC S106484661**  
**N/A**

**Relative:**  
**Lower**

SLIC:  
Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 2000-04-01 00:00:00  
Global Id: SL603798854  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 34.068887  
Longitude: -118.067827  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.5925  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

**Actual:**  
**256 ft.**

**64**  
**ESE**  
**1/4-1/2**  
**0.313 mi.**  
**1652 ft.**

**VALLEY WESTERN DISTRIBUTOR,INC**  
**9666 TELSTAR AVE.**  
**EL MONTE, CA 91731**

**SLIC S106484549**  
**N/A**

**Relative:**  
**Lower**

SLIC:  
Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 1987-01-12 00:00:00  
Global Id: SL603798735  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 34.069396  
Longitude: -118.059171  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.0387  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

**Actual:**  
**256 ft.**

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**65**  
**West**  
**1/4-1/2**  
**0.319 mi.**  
**1687 ft.**

**AEROJET GENERAL CORP.**  
**9100 FLAIR DRIVE**  
**EL MONTE, CA 91731**

**Cortese** **S108936075**  
**RESPONSE** **N/A**  
**ENVIROSTOR**

**Relative:**  
**Higher**

Cortese:  
 Region: CORTESE  
 Envirostor Id: 60000742  
 Site/Facility Type: STATE RESPONSE  
 Cleanup Status: ACTIVE  
 Status Date: 10/19/2007  
 Site Code: 301377  
 Latitude: 34.0715  
 Longitude: -118.0688

**Actual:**  
**263 ft.**

RESPONSE:  
 Facility ID: 60000742  
 Site Type: State Response  
 Site Type Detail: State Response or NPL  
 Acres: 72  
 National Priorities List: NO  
 Cleanup Oversight Agencies: SMBRP  
 Lead Agency: SMBRP  
 Lead Agency Description: DTSC - Sit  
 Project Manager: S. STEVEN HARIRI  
 Supervisor: John Scandura  
 Division Branch: Cypress  
 Site Code: 301377  
 Assembly: 49  
 Senate: 24  
 Special Program Status: Not reported  
 Status: Active  
 Status Date: 2007-10-19 00:00:00  
 Restricted Use: NO  
 Funding: Responsible Party  
 Latitude: 34.0715  
 Longitude: -118.0688  
 Alias Name: 110033613105  
 Alias Type: EPA (FRS #)  
 Alias Name: 301377  
 Alias Type: Project Code (Site Code)  
 Alias Name: 60000742  
 Alias Type: Envirostor ID Number

APN: NONE SPECIFIED  
 APN Description: Not reported  
 Comments: DTSC Reviewed the Quarterly Monitoring Report.DTSC Reviewed the QM Report.

Completed Info:  
 Completed Area Name: PROJECT WIDE  
 Completed Sub Area Name: Not reported  
 Completed Document Type: Other Report  
 Completed Date: 2008-01-08 00:00:00

Completed Area Name: PROJECT WIDE  
 Completed Sub Area Name: Not reported  
 Completed Document Type: Other Report

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AEROJET GENERAL CORP. (Continued)**

**S108936075**

Completed Date: 2008-02-20 00:00:00

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 2008-07-23 00:00:00

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Voluntary Cleanup Agreement  
Completed Date: 2009-01-21 00:00:00

Confirmed: NONE SPECIFIED  
Confirmed Description: Not reported  
Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Media Affected: OTH, SED, SOIL, SV, UE  
Media Affected Desc: Other Grou  
Media Affected Desc: Sediments  
Media Affected Desc: Soil  
Media Affected Desc: Not reported  
Media Affected Desc: Not reported

**Management:**

Management Required: NONE SPECIFIED  
Management Required Desc: Not reported  
Potential: 30017, 30022, 30027, 30028, 30153, 30195, 30246  
Potential Description: Perchlorat  
Potential Description: Tetrachlor  
Potential Description: Trichloroe  
Potential Description: Vinyl chlo  
Potential Description: Chromium V  
Potential Description: 1,2-Dichlo  
Potential Description: 1,4-Dioxan  
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

PastUse: AEROSPACE MANUFACTURING/MAINTENANCE, AEROSPACE ROCKET TESTING/LAUNCH, ENGINE TESTING/REPAIR, LABORATORIES- BIOLOGICAL, LABORATORIES- CHEMICAL, LABORATORIES- UNSPECIFIED, OFFICE BUILDING, RESEARCH - AEROSPACE, RESEARCH - CHEMICAL, RESEARCH - OTHER, R ESEARCH - WEAPONS

**ENVIROSTOR:**

Site Type: State Response  
Site Type Detailed: State Response or NPL  
Acres: 72  
NPL: NO  
Regulatory Agencies: SMBRP  
Lead Agency: SMBRP  
Program Manager: S. STEVEN HARIRI  
Supervisor: John Scandura  
Division Branch: Cypress

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AEROJET GENERAL CORP. (Continued)**

**S108936075**

Facility ID: 60000742  
Site Code: 301377  
Assembly: 49  
Senate: 24  
Special Program: Not reported  
Status: Active  
Status Date: 2007-10-19 00:00:00  
Restricted Use: NO  
Funding: Responsible Party  
Latitude: 34.0715  
Longitude: -118.0688  
Alias Name: 110033613105  
Alias Type: EPA (FRS #)  
Alias Name: 301377  
Alias Type: Project Code (Site Code)  
Alias Name: 60000742  
Alias Type: Envirostor ID Number  
  
APN: NONE SPECIFIED  
APN Description: Not reported  
Comments: DTSC Reviewed the Quarterly Monitoring Report.DTSC Reviewed the QM Report.

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 2008-01-08 00:00:00

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 2008-02-20 00:00:00

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Other Report  
Completed Date: 2008-07-23 00:00:00

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Voluntary Cleanup Agreement  
Completed Date: 2009-01-21 00:00:00

Confirmed: NONE SPECIFIED  
Confirmed Description: Not reported  
Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Media Affected: OTH, SED, SOIL, SV, UE  
Media Affected Desc: Other Grou  
Media Affected Desc: Sediments  
Media Affected Desc: Soil  
Media Affected Desc: Not reported  
Media Affected Desc: Not reported

Management:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AEROJET GENERAL CORP. (Continued)**

**S108936075**

Management Required: NONE SPECIFIED  
Management Required Desc: Not reported  
Potential: 30017, 30022, 30027, 30028, 30153, 30195, 30246  
Potential Description: Perchlorat  
Potential Description: Tetrachlor  
Potential Description: Trichloroe  
Potential Description: Vinyl chlo  
Potential Description: Chromium V  
Potential Description: 1,2-Dichlo  
Potential Description: 1,4-Dioxan  
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  
PastUse: AEROSPACE MANUFACTURING/MAINTENANCE, AEROSPACE ROCKET TESTING/LAUNCH, ENGINE TESTING/REPAIR, LABORATORIES- BIOLOGICAL, LABORATORIES- CHEMICAL, LABORATORIES- UNSPECIFIED, OFFICE BUILDING, RESEARCH - AEROSPACE, RESEARCH - CHEMICAL, RESEARCH - OTHER, RESEARCH - WEAPONS

66  
ENE  
1/4-1/2  
0.323 mi.  
1703 ft.

**LASERTECH COMPUTER DIST. INC.**  
**9680 FLAIR DR**  
**EL MONTE, CA 91731**

**SLIC S106484671**  
**WIP N/A**

Relative:  
Higher

SLIC:  
Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 2000-04-01 00:00:00  
Global Id: SL603798864  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 34.072072  
Longitude: -118.05918  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.5945  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

Actual:  
263 ft.

WIP:

Region: 4  
File Number: 107.5945  
**File Status: Active**  
Staff: CORTEZ  
Facility Suite: Not reported

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

67  
 WSW  
 1/4-1/2  
 0.337 mi.  
 1780 ft.

**LAC DEPT. OF SOCIAL SERVICES**  
**3352 AEROJET AVE**  
**EL MONTE, CA**

**SLIC S106484659**  
**WIP N/A**

**Relative:**  
**Lower**

SLIC:  
 Region: STATE  
**Facility Status: Open - Site Assessment**  
 Status Date: 2000-04-01 00:00:00  
 Global Id: SL603798852  
 Lead Agency: LOS ANGELES RWQCB (REGION 4)  
 Lead Agency Case Number: Not reported  
 Latitude: 34.068887  
 Longitude: -118.067827  
 Case Type: Cleanup Program Site  
 Case Worker: Not reported  
 Local Agency: Not reported  
 RB Case Number: 107.5921  
 File Location: Not reported  
 Potential Media Affected: Aquifer used for drinking water supply  
 Potential Contaminants of Concern: Not reported  
 Site History: Not reported

**Actual:**  
**257 ft.**

WIP:  
 Region: 4  
 File Number: 107.5921  
**File Status: Active**  
 Staff: CORTEZ  
 Facility Suite: Not reported

68  
 WSW  
 1/4-1/2  
 0.360 mi.  
 1902 ft.

**RHR MANAGEMENT, INC.**  
**9040 TELSTAR AVE.**  
**EL MONTE, CA 91731**

**SLIC S106484673**  
**N/A**

**Relative:**  
**Lower**

SLIC:  
 Region: STATE  
**Facility Status: Open - Site Assessment**  
 Status Date: 2000-04-01 00:00:00  
 Global Id: SL603798866  
 Lead Agency: LOS ANGELES RWQCB (REGION 4)  
 Lead Agency Case Number: Not reported  
 Latitude: 34.068422  
 Longitude: -118.069455  
 Case Type: Cleanup Program Site  
 Case Worker: Not reported  
 Local Agency: Not reported  
 RB Case Number: 107.5947  
 File Location: Not reported  
 Potential Media Affected: Aquifer used for drinking water supply  
 Potential Contaminants of Concern: Not reported  
 Site History: Not reported

**Actual:**  
**256 ft.**

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**R69**      **SOUTHERN CALIFORNIA GAS CO.**  
**SSW**      **9407 WHITMORE ST**  
**1/4-1/2**    **EL MONTE, CA 91731**  
**0.394 mi.**  
**2083 ft.**    **Site 1 of 2 in cluster R**

**SLIC**    **S106484627**  
**WIP**     **N/A**

**Relative:**      **SLIC:**  
**Lower**          Region:              STATE  
                      **Facility Status:**    **Completed - Case Closed**  
**Actual:**       Status Date:        1995-03-17 00:00:00  
**245 ft.**        Global Id:            SL603798817  
                      Lead Agency:        LOS ANGELES RWQCB (REGION 4)  
                      Lead Agency Case Number: Not reported  
                      Latitude:            34.065815  
                      Longitude:          -118.06622  
                      Case Type:          Cleanup Program Site  
                      Case Worker:        Not reported  
                      Local Agency:       Not reported  
                      RB Case Number:    107.1714  
                      File Location:      Not reported  
                      Potential Media Affected: Aquifer used for drinking water supply  
                      Potential Contaminants of Concern: Not reported  
                      Site History:        Not reported

**WIP:**  
Region:            4  
File Number:      107.1714  
**File Status:**    **Historical**  
Staff:              ACARLOS  
Facility Suite:    Not reported

**R70**      **J.A. BOZUNG HOLDINGS, INC., FORMER**  
**SSW**      **9401 WHITMORE STREET**  
**1/4-1/2**    **EL MONTE, CA**  
**0.396 mi.**  
**2091 ft.**    **Site 2 of 2 in cluster R**

**SLIC**    **S106484326**  
            **N/A**

**Relative:**      **SLIC:**  
**Lower**          Region:              STATE  
                      **Facility Status:**    **Completed - Case Closed**  
**Actual:**       Status Date:        2006-11-16 00:00:00  
**245 ft.**        Global Id:            SL603792647  
                      Lead Agency:        Not reported  
                      Lead Agency Case Number: Not reported  
                      Latitude:            34.065815  
                      Longitude:          -118.06622  
                      Case Type:          Cleanup Program Site  
                      Case Worker:        Not reported  
                      Local Agency:       Not reported  
                      RB Case Number:    107.0055  
                      File Location:      Regional Board  
                      Potential Media Affected: Not reported  
                      Potential Contaminants of Concern: Not reported  
                      Site History:        Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

71  
SSW  
1/4-1/2  
0.417 mi.  
2204 ft.

**HUBBLE SPECIALTY PRINTING**  
**9300 WHITMORE ST**  
**EL MONTE, CA 91731**

**SLIC S106484633**  
**WIP N/A**

**Relative:**  
**Lower**

SLIC:  
Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 1989-06-08 00:00:00  
Global Id: SL603798824  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 34.065815  
Longitude: -118.06622  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.1813  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

**Actual:**  
**247 ft.**

WIP:  
Region: 4  
File Number: 107.1813  
**File Status: Active**  
Staff: CORTEZ  
Facility Suite: Not reported

72  
WSW  
1/4-1/2  
0.422 mi.  
2230 ft.

**UNKNOWN**  
**C/O AEROJET / TELSTAR**  
**EL MONTE, CA**

**Notify 65 S100178007**  
**N/A**

**Relative:**  
**Lower**

Notify 65:  
Date Reported: Not reported  
Staff Initials: Not reported  
Board File Number: Not reported  
Facility Type: Not reported  
Discharge Date: Not reported  
Incident Description: Not reported

**Actual:**  
**255 ft.**

S73  
SSW  
1/4-1/2  
0.435 mi.  
2295 ft.

**JAN & SCHUYLER COMPANY**  
**9240 WHITMORE ST**  
**EL MONTE, CA 91731**

**SLIC S106484590**  
**WIP N/A**

**Relative:**  
**Lower**

SLIC:  
Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 1987-11-30 00:00:00  
Global Id: SL603798780  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported

**Actual:**  
**247 ft.**

**Site 1 of 3 in cluster S**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JAN & SCHUYLER COMPANY (Continued)**

**S106484590**

Latitude: 34.065815  
Longitude: -118.06622  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.1082  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

WIP:

Region: 4  
File Number: 107.1082  
**File Status: Active**  
Staff: CORTEZ  
Facility Suite: Not reported

**S74**  
**SW**  
**1/4-1/2**  
**0.442 mi.**  
**2333 ft.**

**SOUTHERN CALIFORNIA GAS CO.**  
**9231 WHITMORE ST.**  
**EL MONTE, CA 91731**  
**Site 2 of 3 in cluster S**

**SLIC S106484628**  
**N/A**

**Relative:**  
**Lower**

SLIC:

Region: STATE  
**Facility Status: Completed - Case Closed**  
Status Date: 1995-03-17 00:00:00  
Global Id: SL603798818  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 34.065815  
Longitude: -118.06622  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.1715  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

**Actual:**  
**246 ft.**

**S75**  
**SW**  
**1/4-1/2**  
**0.444 mi.**  
**2346 ft.**

**FORMER LITH-O-ROLL CORP**  
**9210 WHITMORE ST**  
**EL MONTE, CA 91733**  
**Site 3 of 3 in cluster S**

**SLIC S106484656**  
**WIP N/A**

**Relative:**  
**Lower**

SLIC:

Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 2000-04-01 00:00:00  
Global Id: SL603798849  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 34.065815

**Actual:**  
**246 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER LITH-O-ROLL CORP (Continued)**

**S106484656**

Longitude: -118.06622  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.5918  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

WIP:

Region: 4  
File Number: 107.5918  
**File Status: Active**  
Staff: CORTEZ  
Facility Suite: Not reported

T76  
SW  
1/4-1/2  
0.460 mi.  
2431 ft.

**PACIFIC SANDBLASTING CO., INC.**  
**3224 N. ROSEMEAD BLVD.**  
**EL MONTE, CA 91731**

**SLIC S106484539**  
**EMI N/A**

**Site 1 of 2 in cluster T**

**Relative:**  
**Lower**

SLIC:

Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 1987-01-12 00:00:00  
Global Id: SL603798724  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 34.065408  
Longitude: -118.066801  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.0268  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

**Actual:**  
**245 ft.**

EMI:

Year: 2001  
County Code: 19  
Air Basin: SC  
Facility ID: 17743  
Air District Name: SC  
SIC Code: 3471  
Air District Name: SOUTH COAST AQMD  
Community Health Air Pollution Info System: Y  
Consolidated Emission Reporting Rule: B  
Total Organic Hydrocarbon Gases Tons/Yr: 60  
Reactive Organic Gases Tons/Yr: 23  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 1  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PACIFIC SANDBLASTING CO., INC. (Continued)**

**S106484539**

Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

**T77**  
**SW**  
**1/4-1/2**  
**0.463 mi.**  
**2442 ft.**

**GLENBOROUGH CORP./SO. CAL GAS**  
**3200 ROSEMEAD BLVD**  
**EL MONTE, CA 91731**

**SLIC S106484642**  
**WIP N/A**

**Site 2 of 2 in cluster T**

**Relative:**  
**Lower**

**SLIC:**

Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 1995-10-10 00:00:00  
Global Id: SL603798834  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 34.0733024040698  
Longitude: -118.030536434801  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.2235  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

**Actual:**  
**244 ft.**

**WIP:**

Region: 4  
File Number: 107.2235  
**File Status: Active**  
Staff: CORTEZ  
Facility Suite: Not reported

**78**  
**WSW**  
**1/4-1/2**  
**0.472 mi.**  
**2494 ft.**

**FLAIR DRIVE COMMERCIAL PARK**  
**3360 FLAIR DR**  
**EL MONTE, CA 91731**

**SLIC S106484668**  
**WIP N/A**

**Relative:**  
**Lower**

**SLIC:**

Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 2000-04-01 00:00:00  
Global Id: SL603798861  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 34.068422  
Longitude: -118.069455  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.5940  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

**Actual:**  
**254 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FLAIR DRIVE COMMERCIAL PARK (Continued)**

**S106484668**

WIP:

Region: 4  
File Number: 107.5940  
**File Status: Active**  
Staff: CORTEZ  
Facility Suite: Not reported

**U79**  
**East**  
**1/4-1/2**  
**0.479 mi.**  
**2530 ft.**

**FORMER LITH-O-ROLL CORP.**  
**9852 BALDWIN PL.**  
**EL MONTE, CA 91731**  
**Site 1 of 2 in cluster U**

**SLIC S106484654**  
**N/A**

**Relative:**  
**Lower**

SLIC:

Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 2000-04-01 00:00:00  
Global Id: SL603798847  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 34.070557  
Longitude: -118.053797  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.5904  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

**Actual:**  
**256 ft.**

**U80**  
**East**  
**1/4-1/2**  
**0.480 mi.**  
**2534 ft.**

**IRONTITE PROD. CO., INC.**  
**9858 BALDWIN PL.**  
**EL MONTE, CA 91731**  
**Site 2 of 2 in cluster U**

**SLIC S106484589**  
**N/A**

**Relative:**  
**Lower**

SLIC:

Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 1987-11-30 00:00:00  
Global Id: SL603798779  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 34.070557  
Longitude: -118.053797  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.1061  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

**Actual:**  
**256 ft.**

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**81**  
**East**  
**1/4-1/2**  
**0.480 mi.**  
**2536 ft.**

**MARTIN, JACK COMPANY, INC.**  
**9830 BALDWIN PL**  
**EL MONTE, CA 91731**

**SLIC** **S106484600**  
**WIP** **N/A**

**Relative:**  
**Equal**

SLIC:  
Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 1987-11-30 00:00:00  
Global Id: SL603798790  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Lead Agency Case Number: Not reported  
Latitude: 34.070557  
Longitude: -118.053797  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.1180  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

**Actual:**  
**260 ft.**

WIP:  
Region: 4  
File Number: 107.1180  
**File Status: Active**  
Staff: CORTEZ  
Facility Suite: Not reported

**82**  
**SSW**  
**1/4-1/2**  
**0.483 mi.**  
**2548 ft.**

**TEONG H. KAY**  
**3154 ROSEMEAD BLVD**  
**EL MONTE, CA**

**HAZNET** **S102791431**  
**SLIC** **N/A**  
**WIP**  
**SWEEPS UST**

**Relative:**  
**Lower**

HAZNET:  
Gepaid: CAC000124493  
Contact: TEONG H. KAY  
Telephone: 0000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 762 EAST 12TH STREET  
Mailing City,St,Zip: LOS ANGELES, CA 900210000  
Gen County: Los Angeles  
TSD EPA ID: CAD028409019  
TSD County: Los Angeles  
Waste Category: Aqueous solution with less than 10% total organic residues  
Disposal Method: Treatment, Tank  
Tons: 1.9807  
Facility County: Los Angeles

**Actual:**  
**248 ft.**

SLIC:  
Region: STATE  
**Facility Status: Open - Site Assessment**  
Status Date: 1987-05-26 00:00:00  
Global Id: SL603798747  
Lead Agency: LOS ANGELES RWQCB (REGION 4)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TEONG H. KAY (Continued)**

**S102791431**

Lead Agency Case Number: Not reported  
Latitude: 34.064373  
Longitude: -118.065645  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: 107.0449  
File Location: Not reported  
Potential Media Affected: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Not reported  
Site History: Not reported

WIP:

Region: 4  
File Number: 107.1582  
**File Status: Not reported**  
Staff: UNIDENTIFIED  
Facility Suite: Not reported

Region: 4  
File Number: 107.0449  
**File Status: Active**  
Staff: CORTEZ  
Facility Suite: Not reported

SWEEPS UST:

Status: A  
Comp Number: 14456  
Number: 9  
Board Of Equalization: Not reported  
Ref Date: 06-30-89  
Act Date: Not reported  
Created Date: 06-30-89  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: Not reported  
Actv Date: Not reported  
Capacity: Not reported  
Tank Use: Not reported  
Stg: Not reported  
Content: Not reported  
Number Of Tanks: Not reported

83  
East  
1/4-1/2  
0.493 mi.  
2601 ft.

**ARCO #6035**  
**9824 FLAIR DR**  
**EL MONTE, CA 91731**

**HAZNET S101296131**  
**LUST N/A**

**Relative:**  
**Higher**

HAZNET:  
Gepaid: CAL000225801  
Contact: RUTH HA / WASTE SPECIALIST  
Telephone: 5035246191  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 80249  
Mailing City,St,Zip: RCHO STA MARG, CA 926880000

**Actual:**  
**266 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARCO #6035 (Continued)**

**S101296131**

Gen County: Los Angeles  
TSD EPA ID: CAD008364432  
TSD County: Los Angeles  
Waste Category: Organic liquids (nonsolvents) with halogens  
Disposal Method: H141  
Tons: 0.62  
Facility County: Los Angeles

Gepaid: CAL000225801  
Contact: JACK OMAN WASTE SPECIALIST  
Telephone: 7146703958  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 80249  
Mailing City,St,Zip: RCHO STA MARG, CA 926880000  
Gen County: Los Angeles  
TSD EPA ID: CAT080013352  
TSD County: Los Angeles  
Waste Category: Aqueous solution with less than 10% total organic residues  
Disposal Method: Recycler  
Tons: 5.21  
Facility County: Los Angeles

Gepaid: CAL000225801  
Contact: JACK OMAN WASTE SPECIALIST  
Telephone: 7146703958  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 80249  
Mailing City,St,Zip: RCHO STA MARG, CA 926880000  
Gen County: Los Angeles  
TSD EPA ID: CAT080013352  
TSD County: Los Angeles  
Waste Category: Aqueous solution with less than 10% total organic residues  
Disposal Method: Recycler  
Tons: 0.35  
Facility County: Not reported

**LUST:**

Region: STATE  
Global Id: T0603703922  
Latitude: 34.0719467  
Longitude: -118.0548299  
Case Type: LUST Cleanup Site  
Status: Open - Remediation  
Status Date: 2008-04-16 00:00:00  
Lead Agency: LOS ANGELES RWQCB (REGION 4)  
Case Worker: Not reported  
Local Agency: LOS ANGELES COUNTY  
RB Case Number: I-12082  
LOC Case Number: Not reported  
File Location: Regional Board  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminats of Concern: Gasoline  
Site History: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

ARCO #6035 (Continued)

S101296131

LUST REG 4:  
Region: 4  
Regional Board: 04  
County: Los Angeles  
facid: I-12082  
Status: Remedial action (cleanup) Underway  
Substance: Gasoline  
Substance Quantity: Not reported  
Local Case No: Not reported  
Case Type: Groundwater  
Abatement Method Used at the Site: Remove Free Product  
Global ID: T0603703922  
W Global ID: Not reported  
Staff: JLC  
Local Agency: 19000  
Cross Street: AEROJET  
Enforcement Type: DLSEL  
Date Leak Discovered: Not reported  
Date Leak First Reported: 7/13/1987  
Date Leak Record Entered: 3/18/1988  
Date Confirmation Began: Not reported  
Date Leak Stopped: Not reported  
Date Case Last Changed on Database: 7/15/2002  
Date the Case was Closed: Not reported  
How Leak Discovered: Not reported  
How Leak Stopped: Not reported  
Cause of Leak: Not reported  
Leak Source: Not reported  
Operator: Not reported  
Water System: Not reported  
Well Name: Not reported  
Approx. Dist To Production Well (ft): 2414.4119003370944004909224565  
Source of Cleanup Funding: Not reported  
Preliminary Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: Not reported  
Pollution Characterization Began: 6/25/2001  
Remediation Plan Submitted: 6/25/2001  
Remedial Action Underway: 4/15/2004  
Post Remedial Action Monitoring Began: 7/13/1987  
Enforcement Action Date: 3/14/2001  
Historical Max MTBE Date: 1/1/1965  
Hist Max MTBE Conc in Groundwater: 62000  
Hist Max MTBE Conc in Soil: .67  
Significant Interim Remedial Action Taken: Yes  
GW Qualifier: Not reported  
Soil Qualifier: =  
Organization: Not reported  
Owner Contact: Not reported  
Responsible Party: RAY VOSE  
RP Address: PO BOX 5077  
Program: LUST  
Lat/Long: 34.0719467 / -1  
Local Agency Staff: Not reported  
Beneficial Use: Not reported  
Priority: Not reported  
Cleanup Fund Id: Not reported  
Suspended: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ARCO #6035 (Continued)**

**S101296131**

Assigned Name:  
Summary:

Not reported  
SAP UNDER REVIEW FOR OFFSITE INVESTIGATION; 2/11/00 DUAL PHASE  
EXTRACTION PILOT STUDY RPT; 6/27/00 RAP; 7/5/00 2ND QTR GW MON RPT  
2000; 10/11/00 3RD QTR GW MON RPT 2000; 1/4/01 4TH QTR GW MON RPT  
2000; 1/25/01 WELL INSTALLA

## ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BISHOP	U001570464	BISHOP CREEK HYDRO PLANT #4	ROUTE 1, PLANT 4, BISHOP	91770	HIST UST
BODFISH	U001570466	BOREL GENERATING STATION	HIGHWAY 178	91770	HIST UST
EL MONTE	S106484678	TELSTAR BUSINESS PARK	9682 9690 / 9698 TELSTAR AVE	91731	SLIC
EL MONTE	S106484660	WELLS FARGO BANK	3440 9000 FLAIR DR.	91731	SLIC
EL MONTE	S103441636	VAUTHERINE, THEO. L.-EL MONTE	MERCED AVE N END AT RIO HONDO		WMUDS/SWAT
EL MONTE	S109283887	U.S. SAFETY & SUPPLY CO./ZEE MANAG	9662 9660 TELSTAR AVE.	91731	LUST
HIGHLAND	S105047787		7865 SANTA ANA CANYON RD	91770	CHMIRS, San Bern. Co. Permit
LOS ANGELES COUNTY	S105642458	1X MCKESSON DRUG CO	2		HAZNET, LUST, CHMIRS
ROSEMEAD	S106767361	FLETCHER AVIATION	9400 RAMONA BLVD	91770	WIP
SAN BERNARDINO	U003784867	ARROWHEAD SP CH/CONF CNTR	24600 ARROWHEAD SPRINGS RD	91770	CHMIRS, UST, San Bern. Co. Permit

# 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: 02/02/2009	Source: EPA
Date Data Arrived at EDR: 02/12/2009	Telephone: N/A
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 01/26/2009
Number of Days to Update: 46	Next Scheduled EDR Contact: 04/27/2009
	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: 02/02/2009	Source: EPA
Date Data Arrived at EDR: 02/12/2009	Telephone: N/A
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 01/26/2009
Number of Days to Update: 46	Next Scheduled EDR Contact: 04/27/2009
	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: 02/16/2009
Number of Days to Update: 56	Next Scheduled EDR Contact: 05/18/2009
	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: 02/02/2009	Source: EPA
Date Data Arrived at EDR: 02/12/2009	Telephone: N/A
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 01/26/2009
Number of Days to Update: 46	Next Scheduled EDR Contact: 04/27/2009
	Data Release Frequency: Quarterly

## ***Federal CERCLIS list***

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS 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). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/07/2008	Source: EPA
Date Data Arrived at EDR: 10/16/2008	Telephone: 703-412-9810
Date Made Active in Reports: 12/08/2008	Last EDR Contact: 01/30/2009
Number of Days to Update: 53	Next Scheduled EDR Contact: 04/13/2009
	Data Release Frequency: Quarterly

## ***Federal CERCLIS NFRAP site List***

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS 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 this 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. This 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 a potential NPL site.

Date of Government Version: 12/03/2007	Source: EPA
Date Data Arrived at EDR: 12/06/2007	Telephone: 703-412-9810
Date Made Active in Reports: 02/20/2008	Last EDR Contact: 03/16/2009
Number of Days to Update: 76	Next Scheduled EDR Contact: 06/15/2009
	Data Release Frequency: Quarterly

## ***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/17/2008	Source: EPA
Date Data Arrived at EDR: 12/22/2008	Telephone: 800-424-9346
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 03/03/2009
Number of Days to Update: 98	Next Scheduled EDR Contact: 06/01/2009
	Data Release Frequency: Quarterly

## ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF: RCRA - Transporters, 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/12/2008  
Date Data Arrived at EDR: 11/18/2008  
Date Made Active in Reports: 03/16/2009  
Number of Days to Update: 118

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 03/25/2009  
Next Scheduled EDR Contact: 05/18/2009  
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: 11/12/2008  
Date Data Arrived at EDR: 11/18/2008  
Date Made Active in Reports: 03/16/2009  
Number of Days to Update: 118

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 03/25/2009  
Next Scheduled EDR Contact: 05/18/2009  
Data Release Frequency: Quarterly

### **RCRA-SQG: RCRA - Small Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 11/12/2008  
Date Data Arrived at EDR: 11/18/2008  
Date Made Active in Reports: 03/16/2009  
Number of Days to Update: 118

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 03/25/2009  
Next Scheduled EDR Contact: 05/18/2009  
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: 11/12/2008  
Date Data Arrived at EDR: 11/18/2008  
Date Made Active in Reports: 03/16/2009  
Number of Days to Update: 118

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 03/25/2009  
Next Scheduled EDR Contact: 05/18/2009  
Data Release Frequency: Varies

## ***Federal institutional controls / engineering controls registries***

### **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: 10/06/2008  
Date Data Arrived at EDR: 10/17/2008  
Date Made Active in Reports: 12/08/2008  
Number of Days to Update: 52

Source: Environmental Protection Agency  
Telephone: 703-603-0695  
Last EDR Contact: 03/30/2009  
Next Scheduled EDR Contact: 06/29/2009  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 10/06/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/17/2008	Telephone: 703-603-0695
Date Made Active in Reports: 12/08/2008	Last EDR Contact: 03/30/2009
Number of Days to Update: 52	Next Scheduled EDR Contact: 06/29/2009
	Data Release Frequency: Varies

## **Federal ERNS list**

### ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2007	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/23/2008	Telephone: 202-267-2180
Date Made Active in Reports: 03/17/2008	Last EDR Contact: 01/30/2009
Number of Days to Update: 54	Next Scheduled EDR Contact: 04/19/2009
	Data Release Frequency: Annually

## **State- and tribal - equivalent NPL**

### RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 02/23/2009	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 02/24/2009	Telephone: 916-323-3400
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 02/24/2009
Number of Days to Update: 43	Next Scheduled EDR Contact: 05/25/2009
	Data Release Frequency: Quarterly

## **State- and tribal - equivalent CERCLIS**

### ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 02/23/2009	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 02/24/2009	Telephone: 916-323-3400
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 02/24/2009
Number of Days to Update: 43	Next Scheduled EDR Contact: 05/25/2009
	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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/09/2009  
Date Data Arrived at EDR: 03/10/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 29

Source: Integrated Waste Management Board  
Telephone: 916-341-6320  
Last EDR Contact: 03/10/2009  
Next Scheduled EDR Contact: 06/08/2009  
Data Release Frequency: Quarterly

## ***State and tribal leaking storage tank lists***

### LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001  
Date Data Arrived at EDR: 04/23/2001  
Date Made Active in Reports: 05/21/2001  
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)  
Telephone: 858-637-5595  
Last EDR Contact: 04/13/2009  
Next Scheduled EDR Contact: 07/13/2009  
Data Release Frequency: No Update Planned

### LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005  
Date Data Arrived at EDR: 02/15/2005  
Date Made Active in Reports: 03/28/2005  
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)  
Telephone: 909-782-4496  
Last EDR Contact: 02/02/2009  
Next Scheduled EDR Contact: 05/04/2009  
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  
Date Data Arrived at EDR: 02/26/2004  
Date Made Active in Reports: 03/24/2004  
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)  
Telephone: 760-776-8943  
Last EDR Contact: 02/16/2009  
Next Scheduled EDR Contact: 05/18/2009  
Data Release Frequency: No Update Planned

### LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005  
Date Data Arrived at EDR: 06/07/2005  
Date Made Active in Reports: 06/29/2005  
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)  
Telephone: 760-241-7365  
Last EDR Contact: 03/30/2009  
Next Scheduled EDR Contact: 06/29/2009  
Data Release Frequency: No Update Planned

### LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003  
Date Data Arrived at EDR: 09/10/2003  
Date Made Active in Reports: 10/07/2003  
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)  
Telephone: 530-542-5572  
Last EDR Contact: 03/03/2009  
Next Scheduled EDR Contact: 06/01/2009  
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: 01/19/2009  
Next Scheduled EDR Contact: 04/19/2009  
Data Release Frequency: Quarterly

## LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 01/06/2009  
Date Data Arrived at EDR: 01/08/2009  
Date Made Active in Reports: 01/27/2009  
Number of Days to Update: 19

Source: State Water Resources Control Board  
Telephone: see region list  
Last EDR Contact: 04/08/2009  
Next Scheduled EDR Contact: 07/06/2009  
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: 02/16/2009  
Next Scheduled EDR Contact: 05/18/2009  
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: 04/07/2009  
Next Scheduled EDR Contact: 07/06/2009  
Data Release Frequency: Quarterly

## 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: 02/09/2009  
Next Scheduled EDR Contact: 05/11/2009  
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: 03/23/2009  
Next Scheduled EDR Contact: 06/22/2009  
Data Release Frequency: No Update Planned

## SLIC: Statewide SLIC Cases

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/06/2009  
Date Data Arrived at EDR: 01/08/2009  
Date Made Active in Reports: 01/27/2009  
Number of Days to Update: 19

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 04/08/2009  
Next Scheduled EDR Contact: 07/06/2009  
Data Release Frequency: Varies

## SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003  
Date Data Arrived at EDR: 04/07/2003  
Date Made Active in Reports: 04/25/2003  
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)  
Telephone: 707-576-2220  
Last EDR Contact: 02/16/2009  
Next Scheduled EDR Contact: 05/18/2008  
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: 04/07/2009  
Next Scheduled EDR Contact: 07/06/2009  
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: 02/09/2009  
Next Scheduled EDR Contact: 05/11/2009  
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: 01/19/2009  
Next Scheduled EDR Contact: 04/19/2009  
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: 03/30/2009  
Next Scheduled EDR Contact: 06/29/2009  
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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 03/30/2009  
Next Scheduled EDR Contact: 06/29/2009  
Data Release Frequency: Semi-Annually

## SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004  
Date Data Arrived at EDR: 09/07/2004  
Date Made Active in Reports: 10/12/2004  
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region  
Telephone: 530-542-5574  
Last EDR Contact: 03/03/2009  
Next Scheduled EDR Contact: 06/01/2009  
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: 03/03/2009  
Next Scheduled EDR Contact: 05/18/2009  
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: 03/30/2009  
Next Scheduled EDR Contact: 06/29/2009  
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: 02/23/2009  
Next Scheduled EDR Contact: 05/25/2009  
Data Release Frequency: Annually

## INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 03/03/2009  
Date Data Arrived at EDR: 03/04/2009  
Date Made Active in Reports: 03/30/2009  
Number of Days to Update: 26

Source: EPA Region 10  
Telephone: 206-553-2857  
Last EDR Contact: 02/16/2009  
Next Scheduled EDR Contact: 05/18/2009  
Data Release Frequency: Quarterly

## 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: 03/13/2009  
Date Data Arrived at EDR: 03/17/2009  
Date Made Active in Reports: 03/30/2009  
Number of Days to Update: 13

Source: EPA Region 8  
Telephone: 303-312-6271  
Last EDR Contact: 02/16/2009  
Next Scheduled EDR Contact: 05/18/2009  
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: 12/15/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/16/2008	Telephone: 415-972-3372
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 02/16/2009
Number of Days to Update: 90	Next Scheduled EDR Contact: 05/18/2009
	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: 02/19/2009	Source: EPA Region 1
Date Data Arrived at EDR: 02/19/2009	Telephone: 617-918-1313
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 02/16/2009
Number of Days to Update: 25	Next Scheduled EDR Contact: 05/18/2009
	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: 06/06/2008	Source: EPA Region 4
Date Data Arrived at EDR: 10/09/2008	Telephone: 404-562-8677
Date Made Active in Reports: 11/19/2008	Last EDR Contact: 02/16/2009
Number of Days to Update: 41	Next Scheduled EDR Contact: 05/18/2009
	Data Release Frequency: Semi-Annually

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 02/15/2009	Source: EPA Region 6
Date Data Arrived at EDR: 02/27/2009	Telephone: 214-665-6597
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 02/16/2009
Number of Days to Update: 17	Next Scheduled EDR Contact: 05/18/2009
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/01/2008	Source: EPA Region 7
Date Data Arrived at EDR: 12/03/2008	Telephone: 913-551-7003
Date Made Active in Reports: 12/23/2008	Last EDR Contact: 02/20/2009
Number of Days to Update: 20	Next Scheduled EDR Contact: 05/18/2009
	Data Release Frequency: Varies

## **State and tribal registered storage tank lists**

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 01/06/2009	Source: SWRCB
Date Data Arrived at EDR: 01/08/2009	Telephone: 916-480-1028
Date Made Active in Reports: 01/30/2009	Last EDR Contact: 04/08/2009
Number of Days to Update: 22	Next Scheduled EDR Contact: 07/06/2009
	Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities  
Registered Aboveground Storage Tanks.

Date of Government Version: 11/01/2007	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/27/2007	Telephone: 916-341-5712
Date Made Active in Reports: 02/14/2008	Last EDR Contact: 02/09/2009
Number of Days to Update: 79	Next Scheduled EDR Contact: 04/27/2009
	Data Release Frequency: Quarterly

## 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: 02/19/2009	Source: EPA, Region 1
Date Data Arrived at EDR: 02/19/2009	Telephone: 617-918-1313
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 02/16/2009
Number of Days to Update: 25	Next Scheduled EDR Contact: 05/18/2009
	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: 06/06/2008	Source: EPA Region 4
Date Data Arrived at EDR: 10/09/2008	Telephone: 404-562-9424
Date Made Active in Reports: 11/19/2008	Last EDR Contact: 02/16/2009
Number of Days to Update: 41	Next Scheduled EDR Contact: 05/18/2009
	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: 09/08/2008	Source: EPA Region 5
Date Data Arrived at EDR: 09/19/2008	Telephone: 312-886-6136
Date Made Active in Reports: 10/16/2008	Last EDR Contact: 02/16/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 05/18/2009
	Data Release Frequency: Varies

### INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 11/25/2008	Source: EPA Region 6
Date Data Arrived at EDR: 11/26/2008	Telephone: 214-665-7591
Date Made Active in Reports: 12/23/2008	Last EDR Contact: 02/16/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 05/18/2009
	Data Release Frequency: Semi-Annually

### INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/01/2008	Source: EPA Region 7
Date Data Arrived at EDR: 12/30/2008	Telephone: 913-551-7003
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 02/20/2009
Number of Days to Update: 76	Next Scheduled EDR Contact: 05/18/2009
	Data Release Frequency: Varies

### INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 03/13/2009	Source: EPA Region 8
Date Data Arrived at EDR: 03/17/2009	Telephone: 303-312-6137
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 02/16/2009
Number of Days to Update: 13	Next Scheduled EDR Contact: 05/18/2009
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 03/03/2009	Source: EPA Region 10
Date Data Arrived at EDR: 03/04/2009	Telephone: 206-553-2857
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 02/16/2009
Number of Days to Update: 26	Next Scheduled EDR Contact: 05/18/2009
	Data Release Frequency: Quarterly

## INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 12/15/2008	Source: EPA Region 9
Date Data Arrived at EDR: 12/16/2008	Telephone: 415-972-3368
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 02/16/2009
Number of Days to Update: 90	Next Scheduled EDR Contact: 05/18/2009
	Data Release Frequency: Quarterly

### ***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: 01/19/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 04/19/2009
	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: 04/02/2008	Source: EPA, Region 1
Date Data Arrived at EDR: 04/22/2008	Telephone: 617-918-1102
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 01/19/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 04/19/2009
	Data Release Frequency: Varies

#### VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 02/23/2009	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 02/24/2009	Telephone: 916-323-3400
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 02/24/2009
Number of Days to Update: 43	Next Scheduled EDR Contact: 05/25/2009
	Data Release Frequency: Quarterly

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Local Brownfield lists***

US BROWNFIELDS: A Listing of Brownfields Sites

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 10/01/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/14/2008	Telephone: 202-566-2777
Date Made Active in Reports: 12/23/2008	Last EDR Contact: 02/10/2009
Number of Days to Update: 39	Next Scheduled EDR Contact: 04/13/2009
	Data Release Frequency: Semi-Annually

## **Local Lists of Landfill / Solid Waste Disposal Sites**

### **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: 03/25/2008	Source: EPA, Region 9
Date Data Arrived at EDR: 04/17/2008	Telephone: 415-972-3336
Date Made Active in Reports: 05/15/2008	Last EDR Contact: 04/07/2009
Number of Days to Update: 28	Next Scheduled EDR Contact: 06/22/2009
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

### **WMUDS/SWAT: Waste Management Unit Database**

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 03/04/2009
Number of Days to Update: 30	Next Scheduled EDR Contact: 06/01/2009
	Data Release Frequency: Quarterly

### **SWRCY: Recycler Database**

A listing of recycling facilities in California.

Date of Government Version: 01/05/2009	Source: Department of Conservation
Date Data Arrived at EDR: 01/08/2009	Telephone: 916-323-3836
Date Made Active in Reports: 01/27/2009	Last EDR Contact: 04/08/2009
Number of Days to Update: 19	Next Scheduled EDR Contact: 07/06/2009
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

**HAULERS: Registered Waste Tire Haulers Listing**  
A listing of registered waste tire haulers.

Date of Government Version: 12/22/2008	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 12/22/2008	Telephone: 916-341-6422
Date Made Active in Reports: 01/27/2009	Last EDR Contact: 04/07/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: 06/08/2009
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 02/23/2009
Number of Days to Update: 52	Next Scheduled EDR Contact: 05/25/2009
	Data Release Frequency: Varies

## **Local Lists of Hazardous waste / Contaminated Sites**

**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: 07/01/2008	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 10/31/2008	Telephone: 202-307-1000
Date Made Active in Reports: 12/23/2008	Last EDR Contact: 03/26/2009
Number of Days to Update: 53	Next Scheduled EDR Contact: 06/22/2009
	Data Release Frequency: Quarterly

**HIST CAL-SITES: Calsites Database**

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 02/23/2009
Number of Days to Update: 21	Next Scheduled EDR Contact: 05/25/2009
	Data Release Frequency: No Update Planned

**SCH: School Property Evaluation Program**

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 02/23/2009	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 02/24/2009	Telephone: 916-323-3400
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 02/24/2009
Number of Days to Update: 43	Next Scheduled EDR Contact: 05/25/2009
	Data Release Frequency: Quarterly

**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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

## CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 09/30/2008  
Date Data Arrived at EDR: 10/06/2008  
Date Made Active in Reports: 10/13/2008  
Number of Days to Update: 7

Source: Department of Toxic Substances Control  
Telephone: 916-255-6504  
Last EDR Contact: 04/03/2009  
Next Scheduled EDR Contact: 04/19/2009  
Data Release Frequency: Varies

## Local Lists of Registered Storage Tanks

### 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

### UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 12/29/2008  
Date Data Arrived at EDR: 12/29/2008  
Date Made Active in Reports: 01/30/2009  
Number of Days to Update: 32

Source: Department of Public Health  
Telephone: 707-463-4466  
Last EDR Contact: 04/07/2009  
Next Scheduled EDR Contact: 06/22/2009  
Data Release Frequency: Varies

### 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

### SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994  
Date Data Arrived at EDR: 07/07/2005  
Date Made Active in Reports: 08/11/2005  
Number of Days to Update: 35

Source: State Water Resources Control Board  
Telephone: N/A  
Last EDR Contact: 06/03/2005  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## Local Land Records

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 11/20/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/23/2008	Telephone: 202-564-6023
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 03/03/2009
Number of Days to Update: 83	Next Scheduled EDR Contact: 05/18/2009
	Data Release Frequency: Varies

## LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005	Source: Department of the Navy
Date Data Arrived at EDR: 12/11/2006	Telephone: 843-820-7326
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 03/09/2009
Number of Days to Update: 31	Next Scheduled EDR Contact: 06/08/2009
	Data Release Frequency: Varies

## LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 02/13/2009	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 02/17/2009	Telephone: 916-323-3400
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 02/02/2009
Number of Days to Update: 50	Next Scheduled EDR Contact: 05/04/2009
	Data Release Frequency: Varies

## DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 03/30/2009	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 03/31/2009	Telephone: 916-323-3400
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 12/30/2009
Number of Days to Update: 8	Next Scheduled EDR Contact: 06/29/2009
	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: 09/30/2008	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 10/16/2008	Telephone: 202-366-4555
Date Made Active in Reports: 11/19/2008	Last EDR Contact: 01/30/2009
Number of Days to Update: 34	Next Scheduled EDR Contact: 04/13/2009
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2007	Source: Office of Emergency Services
Date Data Arrived at EDR: 05/09/2008	Telephone: 916-845-8400
Date Made Active in Reports: 06/20/2008	Last EDR Contact: 02/16/2009
Number of Days to Update: 42	Next Scheduled EDR Contact: 05/18/2009
	Data Release Frequency: Varies

## LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 01/06/2009	Source: State Water Quality Control Board
Date Data Arrived at EDR: 01/08/2009	Telephone: 866-480-1028
Date Made Active in Reports: 01/27/2009	Last EDR Contact: 04/08/2009
Number of Days to Update: 19	Next Scheduled EDR Contact: 07/06/2009
	Data Release Frequency: Quarterly

## MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 01/06/2009	Source: State Water Resources Control Board
Date Data Arrived at EDR: 01/08/2009	Telephone: 866-480-1028
Date Made Active in Reports: 01/27/2009	Last EDR Contact: 04/08/2009
Number of Days to Update: 19	Next Scheduled EDR Contact: 07/06/2009
	Data Release Frequency: Quarterly

## **Other Ascertainable Records**

### RCRA-NonGen: RCRA - Non 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). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 11/12/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/18/2008	Telephone: (415) 495-8895
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 03/25/2009
Number of Days to Update: 118	Next Scheduled EDR Contact: 05/18/2009
	Data Release Frequency: Varies

### DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 05/14/2008	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 05/28/2008	Telephone: 202-366-4595
Date Made Active in Reports: 08/08/2008	Last EDR Contact: 02/24/2009
Number of Days to Update: 72	Next Scheduled EDR Contact: 05/25/2009
	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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 11/10/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 62

Source: USGS  
Telephone: 703-692-8801  
Last EDR Contact: 02/06/2009  
Next Scheduled EDR Contact: 05/04/2009  
Data Release Frequency: Semi-Annually

## 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: 12/31/2007  
Date Data Arrived at EDR: 09/05/2008  
Date Made Active in Reports: 09/23/2008  
Number of Days to Update: 18

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 03/30/2009  
Next Scheduled EDR Contact: 06/29/2009  
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: 11/03/2008  
Date Data Arrived at EDR: 01/06/2009  
Date Made Active in Reports: 03/30/2009  
Number of Days to Update: 83

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 01/19/2009  
Next Scheduled EDR Contact: 04/19/2009  
Data Release Frequency: Varies

## 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: 10/21/2008  
Date Data Arrived at EDR: 10/29/2008  
Date Made Active in Reports: 12/23/2008  
Number of Days to Update: 55

Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 03/30/2009  
Next Scheduled EDR Contact: 06/29/2009  
Data Release Frequency: Annually

## UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 07/13/2007  
Date Data Arrived at EDR: 12/03/2007  
Date Made Active in Reports: 01/24/2008  
Number of Days to Update: 52

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 03/16/2009  
Next Scheduled EDR Contact: 06/15/2009  
Data Release Frequency: Varies

## 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: 10/31/2008  
Date Data Arrived at EDR: 12/23/2008  
Date Made Active in Reports: 03/30/2009  
Number of Days to Update: 97

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 03/24/2009  
Next Scheduled EDR Contact: 06/22/2009  
Data Release Frequency: Semi-Annually

## 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: 12/31/2006  
Date Data Arrived at EDR: 02/29/2008  
Date Made Active in Reports: 04/18/2008  
Number of Days to Update: 49

Source: EPA  
Telephone: 202-566-0250  
Last EDR Contact: 04/09/2009  
Next Scheduled EDR Contact: 06/15/2009  
Data Release Frequency: Annually

## 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: 12/31/2002  
Date Data Arrived at EDR: 04/14/2006  
Date Made Active in Reports: 05/30/2006  
Number of Days to Update: 46

Source: EPA  
Telephone: 202-260-5521  
Last EDR Contact: 02/18/2009  
Next Scheduled EDR Contact: 04/13/2009  
Data Release Frequency: Every 4 Years

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: 10/08/2008  
Date Data Arrived at EDR: 10/17/2008  
Date Made Active in Reports: 12/08/2008  
Number of Days to Update: 52

Source: EPA/Office of Prevention, Pesticides and Toxic Substances  
Telephone: 202-566-1667  
Last EDR Contact: 03/16/2009  
Next Scheduled EDR Contact: 06/15/2009  
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: 10/08/2008  
Date Data Arrived at EDR: 10/17/2008  
Date Made Active in Reports: 12/08/2008  
Number of Days to Update: 52

Source: EPA  
Telephone: 202-566-1667  
Last EDR Contact: 03/16/2009  
Next Scheduled EDR Contact: 06/15/2009  
Data Release Frequency: Quarterly

## HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2007  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

## HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

# 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

## 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: 12/31/2006  
Date Data Arrived at EDR: 03/14/2008  
Date Made Active in Reports: 04/18/2008  
Number of Days to Update: 35

Source: EPA  
Telephone: 202-564-4203  
Last EDR Contact: 12/04/2008  
Next Scheduled EDR Contact: 01/12/2009  
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: 07/31/2008  
Date Data Arrived at EDR: 08/13/2008  
Date Made Active in Reports: 09/09/2008  
Number of Days to Update: 27

Source: Environmental Protection Agency  
Telephone: 202-564-5088  
Last EDR Contact: 04/13/2009  
Next Scheduled EDR Contact: 07/13/2009  
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: 12/04/2007  
Date Data Arrived at EDR: 02/07/2008  
Date Made Active in Reports: 03/17/2008  
Number of Days to Update: 39

Source: EPA  
Telephone: 202-566-0500  
Last EDR Contact: 02/02/2009  
Next Scheduled EDR Contact: 05/04/2009  
Data Release Frequency: Annually

## 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: 01/07/2009  
Date Data Arrived at EDR: 01/15/2009  
Date Made Active in Reports: 03/30/2009  
Number of Days to Update: 74

Source: Nuclear Regulatory Commission  
Telephone: 301-415-7169  
Last EDR Contact: 03/30/2009  
Next Scheduled EDR Contact: 06/29/2009  
Data Release Frequency: Quarterly

## 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: 10/28/2008  
Date Data Arrived at EDR: 10/29/2008  
Date Made Active in Reports: 12/08/2008  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-343-9775  
Last EDR Contact: 01/30/2009  
Next Scheduled EDR Contact: 04/27/2009  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 10/30/2008	Source: EPA
Date Data Arrived at EDR: 10/31/2008	Telephone: (415) 947-8000
Date Made Active in Reports: 12/23/2008	Last EDR Contact: 03/30/2009
Number of Days to Update: 53	Next Scheduled EDR Contact: 06/29/2009
	Data Release Frequency: Quarterly

## 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	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

## 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: 12/31/2005	Source: EPA/NTIS
Date Data Arrived at EDR: 03/06/2007	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2007	Last EDR Contact: 02/19/2009
Number of Days to Update: 38	Next Scheduled EDR Contact: 06/08/2009
	Data Release Frequency: Biennially

## 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	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## CA WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/20/2007	Telephone: 916-341-5227
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 03/16/2009
Number of Days to Update: 9	Next Scheduled EDR Contact: 06/15/2009
	Data Release Frequency: Quarterly

## 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). This listing is no longer updated by the state agency.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/21/2009  
Date Data Arrived at EDR: 01/22/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 76

Source: CAL EPA/Office of Emergency Information  
Telephone: 916-323-3400  
Last EDR Contact: 01/22/2009  
Next Scheduled EDR Contact: 04/19/2009  
Data Release Frequency: No Update Planned

## NOTIFY 65: Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993  
Date Data Arrived at EDR: 11/01/1993  
Date Made Active in Reports: 11/19/1993  
Number of Days to Update: 18

Source: State Water Resources Control Board  
Telephone: 916-445-3846  
Last EDR Contact: 04/13/2009  
Next Scheduled EDR Contact: 07/13/2009  
Data Release Frequency: No Update Planned

## 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: 09/23/2008  
Date Data Arrived at EDR: 09/24/2008  
Date Made Active in Reports: 09/29/2008  
Number of Days to Update: 5

Source: Department of Toxic Substance Control  
Telephone: 916-327-4498  
Last EDR Contact: 03/30/2009  
Next Scheduled EDR Contact: 03/30/2009  
Data Release Frequency: Annually

## WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 10/31/2008  
Date Data Arrived at EDR: 11/03/2008  
Date Made Active in Reports: 11/26/2008  
Number of Days to Update: 23

Source: Los Angeles Water Quality Control Board  
Telephone: 213-576-6726  
Last EDR Contact: 01/23/2009  
Next Scheduled EDR Contact: 04/19/2009  
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.

Date of Government Version: 12/31/2007  
Date Data Arrived at EDR: 02/17/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 50

Source: California Environmental Protection Agency  
Telephone: 916-255-1136  
Last EDR Contact: 02/17/2009  
Next Scheduled EDR Contact: 05/04/2008  
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: 12/31/2006  
Date Data Arrived at EDR: 10/16/2008  
Date Made Active in Reports: 11/26/2008  
Number of Days to Update: 41

Source: California Air Resources Board  
Telephone: 916-322-2990  
Last EDR Contact: 01/16/2009  
Next Scheduled EDR Contact: 04/13/2009  
Data Release Frequency: Varies

## 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 12/08/2006	Telephone: 202-208-3710
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 02/06/2009
Number of Days to Update: 34	Next Scheduled EDR Contact: 05/04/2009
	Data Release Frequency: Semi-Annually

## SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 12/08/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/09/2008	Telephone: 615-532-8599
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 04/07/2009
Number of Days to Update: 97	Next Scheduled EDR Contact: 05/11/2009
	Data Release Frequency: Varies

## 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: 02/06/2009
Number of Days to Update: 339	Next Scheduled EDR Contact: 05/04/2009
	Data Release Frequency: N/A

## EDR PROPRIETARY RECORDS

### *EDR Proprietary Records*

#### Manufactured Gas Plants: 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	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

#### EDR Historical Auto Stations: EDR Proprietary 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.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## EDR Historical Cleaners: EDR Proprietary 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.

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

## COUNTY RECORDS

### ALAMEDA COUNTY:

#### Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/23/2009  
Date Data Arrived at EDR: 01/23/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 75

Source: Alameda County Environmental Health Services  
Telephone: 510-567-6700  
Last EDR Contact: 01/19/2009  
Next Scheduled EDR Contact: 04/19/2009  
Data Release Frequency: Semi-Annually

#### Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 01/23/2009  
Date Data Arrived at EDR: 01/23/2009  
Date Made Active in Reports: 04/09/2009  
Number of Days to Update: 76

Source: Alameda County Environmental Health Services  
Telephone: 510-567-6700  
Last EDR Contact: 01/19/2009  
Next Scheduled EDR Contact: 04/19/2009  
Data Release Frequency: Semi-Annually

### CONTRA COSTA COUNTY:

#### Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 02/24/2009  
Date Data Arrived at EDR: 02/25/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 42

Source: Contra Costa Health Services Department  
Telephone: 925-646-2286  
Last EDR Contact: 02/23/2009  
Next Scheduled EDR Contact: 05/25/2009  
Data Release Frequency: Semi-Annually

### FRESNO COUNTY:

#### CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 01/14/2009  
Date Data Arrived at EDR: 01/15/2009  
Date Made Active in Reports: 01/27/2009  
Number of Days to Update: 12

Source: Dept. of Community Health  
Telephone: 559-445-3271  
Last EDR Contact: 02/02/2009  
Next Scheduled EDR Contact: 05/04/2009  
Data Release Frequency: Semi-Annually

### KERN COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

Date of Government Version: 03/30/2009  
Date Data Arrived at EDR: 03/31/2009  
Date Made Active in Reports: 04/09/2009  
Number of Days to Update: 9

Source: Kern County Environment Health Services Department  
Telephone: 661-862-8700  
Last EDR Contact: 03/30/2009  
Next Scheduled EDR Contact: 06/01/2009  
Data Release Frequency: Quarterly

## 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: 12/31/1998  
Date Data Arrived at EDR: 07/07/1999  
Date Made Active in Reports: N/A  
Number of Days to Update: 0

Source: EPA Region 9  
Telephone: 415-972-3178  
Last EDR Contact: 04/13/2009  
Next Scheduled EDR Contact: 07/13/2009  
Data Release Frequency: No Update Planned

### HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 11/26/2008  
Date Data Arrived at EDR: 01/27/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 71

Source: Department of Public Works  
Telephone: 626-458-3517  
Last EDR Contact: 02/09/2009  
Next Scheduled EDR Contact: 05/11/2009  
Data Release Frequency: Semi-Annually

### List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 11/10/2008  
Date Data Arrived at EDR: 11/25/2008  
Date Made Active in Reports: 01/27/2009  
Number of Days to Update: 63

Source: La County Department of Public Works  
Telephone: 818-458-5185  
Last EDR Contact: 02/11/2009  
Next Scheduled EDR Contact: 05/11/2009  
Data Release Frequency: Varies

### City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/05/2009  
Date Data Arrived at EDR: 03/10/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 29

Source: Engineering & Construction Division  
Telephone: 213-473-7869  
Last EDR Contact: 03/10/2009  
Next Scheduled EDR Contact: 06/08/2009  
Data Release Frequency: Varies

### Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 02/14/2008  
Date Data Arrived at EDR: 04/10/2008  
Date Made Active in Reports: 05/06/2008  
Number of Days to Update: 26

Source: Community Health Services  
Telephone: 323-890-7806  
Last EDR Contact: 02/09/2009  
Next Scheduled EDR Contact: 05/11/2009  
Data Release Frequency: Annually

### City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/09/2009  
Date Data Arrived at EDR: 02/17/2009  
Date Made Active in Reports: 04/09/2009  
Number of Days to Update: 51

Source: City of El Segundo Fire Department  
Telephone: 310-524-2236  
Last EDR Contact: 02/09/2009  
Next Scheduled EDR Contact: 05/11/2009  
Data Release Frequency: Semi-Annually

## City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/28/2003  
Date Data Arrived at EDR: 10/23/2003  
Date Made Active in Reports: 11/26/2003  
Number of Days to Update: 34

Source: City of Long Beach Fire Department  
Telephone: 562-570-2563  
Last EDR Contact: 02/20/2009  
Next Scheduled EDR Contact: 05/18/2009  
Data Release Frequency: Annually

## City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 02/23/2009  
Date Data Arrived at EDR: 02/24/2009  
Date Made Active in Reports: 04/09/2009  
Number of Days to Update: 44

Source: City of Torrance Fire Department  
Telephone: 310-618-2973  
Last EDR Contact: 02/23/2009  
Next Scheduled EDR Contact: 05/11/2009  
Data Release Frequency: Semi-Annually

## MARIN COUNTY:

### Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 02/05/2009  
Date Data Arrived at EDR: 02/17/2009  
Date Made Active in Reports: 04/09/2009  
Number of Days to Update: 51

Source: Public Works Department Waste Management  
Telephone: 415-499-6647  
Last EDR Contact: 01/26/2009  
Next Scheduled EDR Contact: 04/27/2009  
Data Release Frequency: Semi-Annually

## NAPA COUNTY:

### Sites With Reported Contamination

A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 07/09/2008  
Date Data Arrived at EDR: 07/09/2008  
Date Made Active in Reports: 07/31/2008  
Number of Days to Update: 22

Source: Napa County Department of Environmental Management  
Telephone: 707-253-4269  
Last EDR Contact: 03/23/2009  
Next Scheduled EDR Contact: 06/22/2009  
Data Release Frequency: Semi-Annually

### 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: 03/23/2009  
Next Scheduled EDR Contact: 06/22/2009  
Data Release Frequency: Annually

## ORANGE COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 03/02/2009  
Date Data Arrived at EDR: 03/18/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 21

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 03/05/2009  
Next Scheduled EDR Contact: 06/01/2009  
Data Release Frequency: Annually

## List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 03/02/2009  
Date Data Arrived at EDR: 03/27/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 12

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 03/05/2009  
Next Scheduled EDR Contact: 06/01/2009  
Data Release Frequency: Quarterly

## List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 03/02/2009  
Date Data Arrived at EDR: 03/18/2009  
Date Made Active in Reports: 04/09/2009  
Number of Days to Update: 22

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 12/02/2009  
Next Scheduled EDR Contact: 06/01/2009  
Data Release Frequency: Quarterly

## PLACER COUNTY:

### Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 01/26/2009  
Date Data Arrived at EDR: 02/10/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 57

Source: Placer County Health and Human Services  
Telephone: 530-889-7312  
Last EDR Contact: 04/03/2009  
Next Scheduled EDR Contact: 06/29/2009  
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: 11/06/2008  
Date Data Arrived at EDR: 11/17/2008  
Date Made Active in Reports: 11/26/2008  
Number of Days to Update: 9

Source: Department of Public Health  
Telephone: 951-358-5055  
Last EDR Contact: 04/13/2009  
Next Scheduled EDR Contact: 07/13/2009  
Data Release Frequency: Quarterly

### Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 02/19/2009  
Date Data Arrived at EDR: 02/20/2009  
Date Made Active in Reports: 04/09/2009  
Number of Days to Update: 48

Source: Health Services Agency  
Telephone: 951-358-5055  
Last EDR Contact: 04/13/2009  
Next Scheduled EDR Contact: 07/13/2009  
Data Release Frequency: Quarterly

## SACRAMENTO COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Contaminated Sites

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 01/30/2009  
Date Data Arrived at EDR: 02/03/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 64

Source: Sacramento County Environmental Management  
Telephone: 916-875-8406  
Last EDR Contact: 01/30/2009  
Next Scheduled EDR Contact: 04/27/2009  
Data Release Frequency: Quarterly

## ML - Regulatory Compliance Master List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 01/30/2009  
Date Data Arrived at EDR: 02/03/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 64

Source: Sacramento County Environmental Management  
Telephone: 916-875-8406  
Last EDR Contact: 01/30/2009  
Next Scheduled EDR Contact: 04/27/2009  
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: 01/07/2009  
Date Data Arrived at EDR: 01/09/2009  
Date Made Active in Reports: 01/27/2009  
Number of Days to Update: 18

Source: San Bernardino County Fire Department Hazardous Materials Division  
Telephone: 909-387-3041  
Last EDR Contact: 03/03/2009  
Next Scheduled EDR Contact: 06/01/2009  
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: 07/16/2008  
Date Data Arrived at EDR: 10/29/2008  
Date Made Active in Reports: 11/26/2008  
Number of Days to Update: 28

Source: Hazardous Materials Management Division  
Telephone: 619-338-2268  
Last EDR Contact: 04/03/2009  
Next Scheduled EDR Contact: 06/29/2009  
Data Release Frequency: Quarterly

### Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 11/01/2008  
Date Data Arrived at EDR: 12/23/2008  
Date Made Active in Reports: 01/27/2009  
Number of Days to Update: 35

Source: Department of Health Services  
Telephone: 619-338-2209  
Last EDR Contact: 02/16/2009  
Next Scheduled EDR Contact: 11/17/2008  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 01/22/2009	Source: San Diego County Department of Environmental Health
Date Data Arrived at EDR: 03/31/2009	Telephone: 619-338-2371
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 03/31/2009
Number of Days to Update: 8	Next Scheduled EDR Contact: 06/29/2009
	Data Release Frequency: Varies

## 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	Source: Department Of Public Health San Francisco County
Date Data Arrived at EDR: 09/19/2008	Telephone: 415-252-3920
Date Made Active in Reports: 09/29/2008	Last EDR Contact: 03/30/2009
Number of Days to Update: 10	Next Scheduled EDR Contact: 06/01/2009
	Data Release Frequency: Quarterly

### Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008	Source: Department of Public Health
Date Data Arrived at EDR: 09/19/2008	Telephone: 415-252-3920
Date Made Active in Reports: 10/01/2008	Last EDR Contact: 03/16/2009
Number of Days to Update: 12	Next Scheduled EDR Contact: 06/01/2009
	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: 02/10/2009	Source: Environmental Health Department
Date Data Arrived at EDR: 02/25/2009	Telephone: N/A
Date Made Active in Reports: 04/09/2009	Last EDR Contact: 04/13/2009
Number of Days to Update: 43	Next Scheduled EDR Contact: 07/13/2009
	Data Release Frequency: Semi-Annually

## SAN MATEO COUNTY:

### Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 01/29/2009	Source: San Mateo County Environmental Health Services Division
Date Data Arrived at EDR: 01/30/2009	Telephone: 650-363-1921
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 04/07/2009
Number of Days to Update: 68	Next Scheduled EDR Contact: 07/06/2009
	Data Release Frequency: Annually

### Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 01/05/2009	Source: San Mateo County Environmental Health Services Division
Date Data Arrived at EDR: 01/06/2009	Telephone: 650-363-1921
Date Made Active in Reports: 01/27/2009	Last EDR Contact: 04/07/2009
Number of Days to Update: 21	Next Scheduled EDR Contact: 07/06/2009
	Data Release Frequency: Semi-Annually

## SANTA CLARA COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 12/29/2008  
Date Data Arrived at EDR: 12/29/2008  
Date Made Active in Reports: 01/27/2009  
Number of Days to Update: 29

Source: Department of Environmental Health  
Telephone: 408-918-3417  
Last EDR Contact: 04/07/2009  
Next Scheduled EDR Contact: 06/22/2009  
Data Release Frequency: Varies

## Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 03/03/2009  
Date Data Arrived at EDR: 03/03/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 36

Source: City of San Jose Fire Department  
Telephone: 408-277-4659  
Last EDR Contact: 03/03/2009  
Next Scheduled EDR Contact: 06/01/2009  
Data Release Frequency: Annually

## SOLANO COUNTY:

### Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 01/09/2009  
Date Data Arrived at EDR: 01/30/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 68

Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 03/23/2009  
Next Scheduled EDR Contact: 06/22/2009  
Data Release Frequency: Quarterly

### Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 01/09/2009  
Date Data Arrived at EDR: 02/03/2009  
Date Made Active in Reports: 04/09/2009  
Number of Days to Update: 65

Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 03/23/2009  
Next Scheduled EDR Contact: 06/22/2009  
Data Release Frequency: Quarterly

## SONOMA COUNTY:

### Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 01/20/2009  
Date Data Arrived at EDR: 01/21/2009  
Date Made Active in Reports: 01/27/2009  
Number of Days to Update: 6

Source: Department of Health Services  
Telephone: 707-565-6565  
Last EDR Contact: 01/19/2009  
Next Scheduled EDR Contact: 04/19/2009  
Data Release Frequency: Quarterly

## SUTTER COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 04/01/2009	Source: Sutter County Department of Agriculture
Date Data Arrived at EDR: 04/02/2009	Telephone: 530-822-7500
Date Made Active in Reports: 04/09/2009	Last EDR Contact: 03/30/2009
Number of Days to Update: 7	Next Scheduled EDR Contact: 06/29/2009
	Data Release Frequency: Semi-Annually

## 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: 02/26/2009	Source: Ventura County Environmental Health Division
Date Data Arrived at EDR: 03/31/2009	Telephone: 805-654-2813
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 03/10/2009
Number of Days to Update: 8	Next Scheduled EDR Contact: 06/08/2009
	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: 08/01/2008	Source: Environmental Health Division
Date Data Arrived at EDR: 09/04/2008	Telephone: 805-654-2813
Date Made Active in Reports: 09/18/2008	Last EDR Contact: 02/16/2009
Number of Days to Update: 14	Next Scheduled EDR Contact: 05/18/2009
	Data Release Frequency: Annually

### Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008	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: 06/09/2009
Number of Days to Update: 37	Next Scheduled EDR Contact: 06/08/2009
	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: 12/29/2008	Source: Environmental Health Division
Date Data Arrived at EDR: 01/08/2009	Telephone: 805-654-2813
Date Made Active in Reports: 01/30/2009	Last EDR Contact: 04/08/2009
Number of Days to Update: 22	Next Scheduled EDR Contact: 07/06/2009
	Data Release Frequency: Quarterly

## YOLO COUNTY:

### Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 01/14/2009	Source: Yolo County Department of Health
Date Data Arrived at EDR: 02/06/2009	Telephone: 530-666-8646
Date Made Active in Reports: 04/09/2009	Last EDR Contact: 04/13/2009
Number of Days to Update: 62	Next Scheduled EDR Contact: 07/13/2009
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

### CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2006	Source: Department of Environmental Protection
Date Data Arrived at EDR: 12/11/2008	Telephone: 860-424-3375
Date Made Active in Reports: 03/19/2009	Last EDR Contact: 03/13/2009
Number of Days to Update: 98	Next Scheduled EDR Contact: 06/08/2009
	Data Release Frequency: Annually

### NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 09/30/2007	Source: Department of Environmental Protection
Date Data Arrived at EDR: 12/04/2007	Telephone: N/A
Date Made Active in Reports: 12/31/2007	Last EDR Contact: 02/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 05/04/2009
	Data Release Frequency: Annually

### NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/27/2009	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 02/25/2009	Telephone: 518-402-8651
Date Made Active in Reports: 03/12/2009	Last EDR Contact: 02/25/2009
Number of Days to Update: 15	Next Scheduled EDR Contact: 05/25/2009
	Data Release Frequency: Annually

### PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2007	Source: Department of Environmental Protection
Date Data Arrived at EDR: 09/11/2008	Telephone: N/A
Date Made Active in Reports: 10/02/2008	Last EDR Contact: 03/09/2009
Number of Days to Update: 21	Next Scheduled EDR Contact: 06/08/2009
	Data Release Frequency: Annually

### RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2008	Source: Department of Environmental Management
Date Data Arrived at EDR: 02/12/2009	Telephone: 401-222-2797
Date Made Active in Reports: 03/11/2009	Last EDR Contact: 03/16/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 06/15/2009
	Data Release Frequency: Annually

### WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2007	Source: Department of Natural Resources
Date Data Arrived at EDR: 08/22/2008	Telephone: N/A
Date Made Active in Reports: 09/08/2008	Last EDR Contact: 04/07/2009
Number of Days to Update: 17	Next Scheduled EDR Contact: 07/06/2009
	Data Release Frequency: Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

**Oil/Gas Pipelines:** This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

### Electric Power Transmission Line Data

Source: PennWell Corporation

Telephone: (800) 823-6277

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**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

### AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

### Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

### Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

### Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

### Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

### Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

### Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## STREET AND ADDRESS INFORMATION

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## GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

SARGENT FLETCHER, INC.  
9400 FLAIR DRIVE  
EL MONTE, CA 91731

### TARGET PROPERTY COORDINATES

Latitude (North):	34.07110 - 34° 4' 16.0"
Longitude (West):	118.0632 - 118° 3' 47.5"
Universal Transverse Mercator:	Zone 11
UTM X (Meters):	401893.3
UTM Y (Meters):	3770354.8
Elevation:	260 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map:	34118-A1 EL MONTE, CA
Most Recent Revision:	1994

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

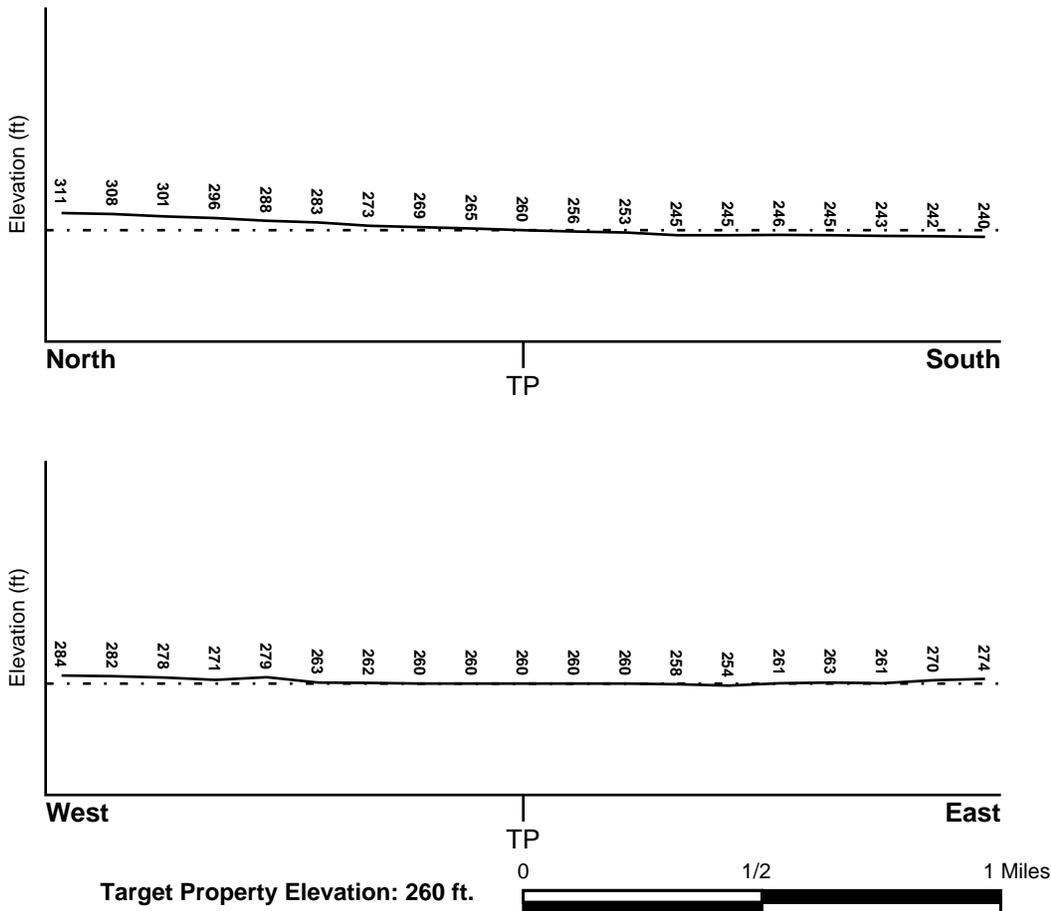
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General 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>Target Property County</u>	FEMA Flood <u>Electronic Data</u>
LOS ANGELES, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 0606580000A

Additional Panels in search area: 0606530000A  
0601530000A  
0601620000A

## **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u>	NWI Electronic <u>Data Coverage</u>
EL MONTE	Not Available

## HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### ***Site-Specific Hydrogeological Data\*:***

Search Radius:	1.25 miles
Status:	Not found

## **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION</u> <u>FROM TP</u>	<u>GENERAL DIRECTION</u> <u>GROUNDWATER FLOW</u>
Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### ROCK STRATIGRAPHIC UNIT

Era: Cenozoic  
System: Quaternary  
Series: Quaternary  
Code: Q (*decoded above as Era, System & Series*)

#### GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### 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 1 mile
State Database	1.000

## FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
2	USGS3290437	1/4 - 1/2 Mile SE
5	USGS3160513	1/2 - 1 Mile ENE
B6	USGS3160506	1/2 - 1 Mile West
B7	USGS3160505	1/2 - 1 Mile West
C8	USGS3290424	1/2 - 1 Mile SSW
14	USGS3160516	1/2 - 1 Mile ENE
C15	USGS3222136	1/2 - 1 Mile SSW
C16	USGS3160500	1/2 - 1 Mile SSW
C17	USGS3290633	1/2 - 1 Mile SSW
F22	USGS3160503	1/2 - 1 Mile West
F23	USGS3160502	1/2 - 1 Mile West
24	USGS3160507	1/2 - 1 Mile East

## FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
18	CA1900009	1/2 - 1 Mile NW

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>
1	1385	1/8 - 1/4 Mile West
A3	1386	1/4 - 1/2 Mile SW
A4	1395	1/4 - 1/2 Mile SW
D9	1379	1/2 - 1 Mile ESE
D10	1378	1/2 - 1 Mile ESE
D11	1393	1/2 - 1 Mile ESE
D12	1397	1/2 - 1 Mile ESE
D13	1394	1/2 - 1 Mile ESE
E19	1382	1/2 - 1 Mile NNW

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## STATE DATABASE WELL INFORMATION

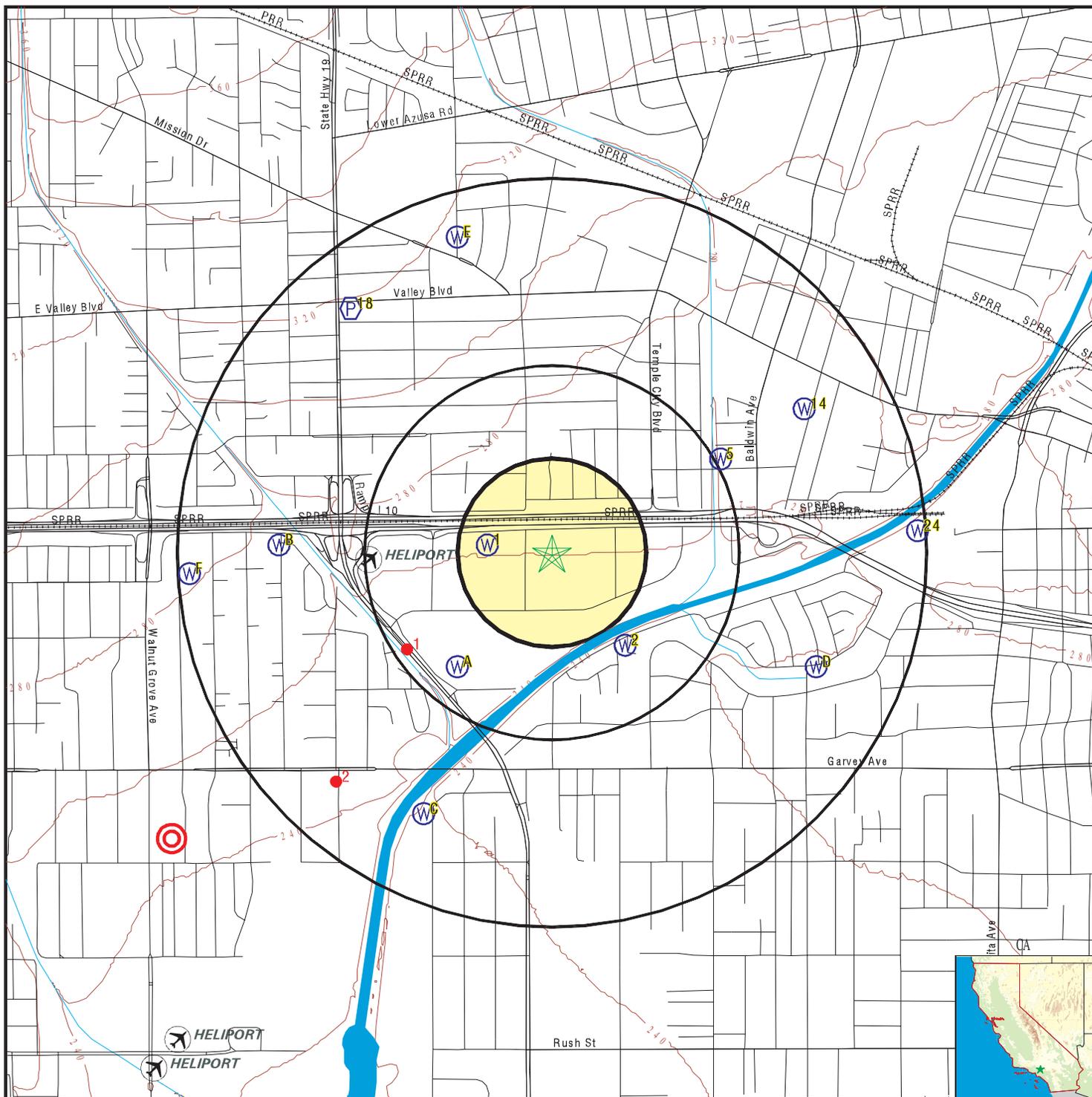
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
E20	1383	1/2 - 1 Mile NNW
E21	1384	1/2 - 1 Mile NNW

## OTHER STATE DATABASE INFORMATION

## STATE OIL/GAS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	CAOG50000029117	1/4 - 1/2 Mile SW
2	CAOG50000028165	1/2 - 1 Mile SW

# PHYSICAL SETTING SOURCE MAP - 02465694.2r



- 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



<p>SITE NAME: Sargent Fletcher, Inc.          ADDRESS: 9400 Flair Drive          EI Monte CA 91731          LAT/LONG: 34.0711 / 118.0632</p>	<p>CLIENT: ERM - West, Inc.          CONTACT: Simon Mendum          INQUIRY #: 02465694.2r          DATE: April 13, 2009 1:32 pm</p>
--	--

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

<b>1</b>		
<b>West</b>	<b>CA WELLS</b>	<b>1385</b>
<b>1/8 - 1/4 Mile</b>		
<b>Higher</b>		

**Water System Information:**

Prime Station Code: 01S/11W-18H02 S	User ID: 19C	
FRDS Number: 190009001	County: Los Angeles	
District Number: 49	Station Type: WELL/AMBNT/MUN/INTAKE	
Water Type: Well/Groundwater	Well Status: Active Raw	
Source Lat/Long: 340417.0 1180355.0	Precision: 1,000 Feet (10 Seconds)	
Source Name: WELL 02		
System Number: 1900009		
System Name: ADAMS RANCH MUTUAL		
Organization That Operates System:		
	Not Reported	
Pop Served: Unknown, Small System	Connections: Unknown, Small System	
Area Served: Not Reported		

<b>2</b>		
<b>SE</b>	<b>FED USGS</b>	<b>USGS3290437</b>
<b>1/4 - 1/2 Mile</b>		
<b>Lower</b>		

Agency cd: USGS	Site no: 340403118033201	
Site name: 001S011W20L001S		
Latitude: 340403		
Longitude: 1180332	Dec lat: 34.0675099	
Dec lon: -118.05978999	Coor meth: M	
Coor acc: S	Latlong datum: NAD27	
Dec latlong datum: NAD83	District: 06	
State: 06	County: 037	
Country: US	Land net: Not Reported	
Location map: EL MONTE	Map scale: 24000	
Altitude: Not Reported		
Altitude method: Not Reported		
Altitude accuracy: Not Reported		
Altitude datum: Not Reported		
Hydrologic: Los Angeles, California. Area = 819 sq.mi.		
Topographic: Not Reported		
Site type: Ground-water other than Spring	Date construction: Not Reported	
Date inventoried: Not Reported	Mean greenwich time offset: PST	
Local standard time flag: Y		
Type of ground water site: Single well, other than collector or Ranney type		
Aquifer Type: Not Reported		
Aquifer: Not Reported		
Well depth: 367	Hole depth: Not Reported	
Source of depth data: Not Reported		
Project number: 9479335800		
Real time data flag: Not Reported	Daily flow data begin date: Not Reported	
Daily flow data end date: Not Reported	Daily flow data count: Not Reported	
Peak flow data begin date: Not Reported	Peak flow data end date: Not Reported	
Peak flow data count: Not Reported	Water quality data begin date: Not Reported	
Water quality data end date: Not Reported	Water quality data count: Not Reported	
Ground water data begin date: Not Reported	Ground water data end date: Not Reported	
Ground water data count: Not Reported		

Ground-water levels, Number of Measurements: 0

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**A3**  
**SW**  
**1/4 - 1/2 Mile**  
**Lower**

**CA WELLS      1386**

**Water System Information:**

Prime Station Code:	01S/11W-18K01 S	User ID:	4TH
FRDS Number:	1910139018	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340400.0 1180400.0	Precision:	Undefined
Source Name:	GUESS WELL		
System Number:	1910139		
System Name:	CAL. AMERICAN WATER CO.-SAN MARINO		
Organization That Operates System:	2020 HUNTINGTON DRIVE SAN MARINO, CA 91108		
Pop Served:	49353	Connections:	13902
Area Served:	SAN MARINO		

**A4**  
**SW**  
**1/4 - 1/2 Mile**  
**Lower**

**CA WELLS      1395**

**Water System Information:**

Prime Station Code:	01S/11W-20L01 S	User ID:	4TH
FRDS Number:	1910038007	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Destroyed
Source Lat/Long:	340400.0 1180400.0	Precision:	Undefined
Source Name:	WELL 11 LACFC 2943M - DESTROYED		
System Number:	1910038		
System Name:	EL MONTE-CITY, WATER DEPT.		
Organization That Operates System:	P.O. BOX 6008 EL MONTE, CA 91734		
Pop Served:	13300	Connections:	3344
Area Served:	EL MONTE		

**5**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS3160513**

Agency cd:	USGS	Site no:	340429118031601
Site name:	001S011W20B004S		
Latitude:	340429		
Longitude:	1180316	Dec lat:	34.0747318
Dec lon:	-118.05534542	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	037
Country:	US	Land net:	Not Reported
Location map:	EL MONTE	Map scale:	24000

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	Not Reported		
Altitude datum:	Not Reported		
Hydrologic:	Los Angeles. California. Area = 819 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	392	Hole depth:	392
Source of depth data:	Not Reported		
Project number:	9479335800		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

**B6  
West  
1/2 - 1 Mile  
Higher**

**FED USGS      USGS3160506**

Agency cd:	USGS	Site no:	340417118043002
Site name:	001S011W19F002S		
Latitude:	340417		
Longitude:	1180430	Dec lat:	34.07139875
Dec lon:	-118.07590165	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	037
Country:	US	Land net:	Not Reported
Location map:	EL MONTE	Map scale:	24000
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	Not Reported		
Altitude datum:	Not Reported		
Hydrologic:	Los Angeles. California. Area = 819 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	646	Hole depth:	646
Source of depth data:	Not Reported		
Project number:	9479335800		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: Not Reported  
 Water quality data end date: Not Reported  
 Ground water data begin date: Not Reported  
 Ground water data count: Not Reported

Water quality data begin date: Not Reported  
 Water quality data count: Not Reported  
 Ground water data end date: Not Reported

Ground-water levels, Number of Measurements: 0

**B7**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS3160505**

Agency cd:	USGS	Site no:	340417118043001
Site name:	001S011W19F001S		
Latitude:	340417		
Longitude:	1180430	Dec lat:	34.07139875
Dec lon:	-118.07590165	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	037
Country:	US	Land net:	Not Reported
Location map:	EL MONTE	Map scale:	24000
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	Not Reported		
Altitude datum:	Not Reported		
Hydrologic:	Los Angeles. California. Area = 819 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	852	Hole depth:	852
Source of depth data:	Not Reported		
Project number:	9479335800		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

**C8**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS3290424**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	340341118040501
Site name:	001S011W30B001S		
Latitude:	340341		
Longitude:	1180405	Dec lat:	34.06139909
Dec lon:	-118.06895694	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	037
Country:	US	Land net:	Not Reported
Location map:	EL MONTE	Map scale:	24000
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	Not Reported		
Altitude datum:	Not Reported		
Hydrologic:	Los Angeles, California. Area = 819 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	310	Hole depth:	310
Source of depth data:	Not Reported		
Project number:	9479335800		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

**D9**  
**ESE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS 1379**

**Water System Information:**

Prime Station Code:	01S/11W-16M04 S	User ID:	MET
FRDS Number:	1910212008	County:	Los Angeles
District Number:	15	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Inactive Raw
Source Lat/Long:	340400.0 1180300.0	Precision:	Undefined
Source Name:	GIDLEY WELL 02 - 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

**D10**  
**ESE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      1378**

**Water System Information:**

Prime Station Code:	01S/11W-16M03 S	User ID:	MET
FRDS Number:	1910212007	County:	Los Angeles
District Number:	15	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Inactive Raw
Source Lat/Long:	340400.0 1180300.0	Precision:	Undefined
Source Name:	GIDLEY 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		

**D11**  
**ESE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      1393**

**Water System Information:**

Prime Station Code:	01S/11W-20B02 S	User ID:	4TH
FRDS Number:	1910139015	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Inactive Raw
Source Lat/Long:	340400.0 1180300.0	Precision:	Undefined
Source Name:	BLUE RIBBON WELL 01 - INACTIVE		
System Number:	1910139		
System Name:	CAL. AMERICAN WATER CO.-SAN MARINO		
Organization That Operates System:	2020 HUNTINGTON DRIVE SAN MARINO, CA 91108		
Pop Served:	49353	Connections:	13902
Area Served:	SAN MARINO		

**D12**  
**ESE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      1397**

**Water System Information:**

Prime Station Code:	01S/11W-21F02 S	User ID:	4TH
FRDS Number:	1910038008	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340400.0 1180300.0	Precision:	Undefined
Source Name:	WELL 12		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

System Number:	1910038		
System Name:	EL MONTE-CITY, WATER DEPT.		
Organization That Operates System:	P.O. BOX 6008 EL MONTE, CA 91734		
Pop Served:	13300	Connections:	3344
Area Served:	EL MONTE		
Sample Collected:	12/04/2007 00:00:00	Findings:	29.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/04/2007 00:00:00	Findings:	8.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12/04/2007 00:00:00	Findings:	21 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11/06/2007 00:00:00	Findings:	10.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11/06/2007 00:00:00	Findings:	24.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10/17/2007 00:00:00	Findings:	28.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/17/2007 00:00:00	Findings:	10 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10/17/2007 00:00:00	Findings:	30 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10/17/2007 00:00:00	Findings:	.7 UG/L
Chemical:	CARBON TETRACHLORIDE		
Sample Collected:	10/02/2007 00:00:00	Findings:	8.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10/02/2007 00:00:00	Findings:	19.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09/04/2007 00:00:00	Findings:	26.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/04/2007 00:00:00	Findings:	22 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09/04/2007 00:00:00	Findings:	10 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08/07/2007 00:00:00	Findings:	21 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08/07/2007 00:00:00	Findings:	10 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/12/2007 00:00:00	Findings:	8.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/12/2007 00:00:00	Findings:	21 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07/12/2007 00:00:00	Findings:	26.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07/03/2007 00:00:00	Findings:	10 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/03/2007 00:00:00	Findings:	22 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06/05/2007 00:00:00	Findings:	238 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	06/05/2007 00:00:00	Findings:	26.7 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06/05/2007 00:00:00	Findings:	32 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06/05/2007 00:00:00	Findings:	12 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06/05/2007 00:00:00	Findings:	.15 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	06/05/2007 00:00:00	Findings:	26.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06/05/2007 00:00:00	Findings:	.04
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	06/05/2007 00:00:00	Findings:	392 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	06/05/2007 00:00:00	Findings:	.29 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	06/05/2007 00:00:00	Findings:	20.1 MG/L
Chemical:	CHLORIDE		
Sample Collected:	06/05/2007 00:00:00	Findings:	2.23 MG/L
Chemical:	POTASSIUM		
Sample Collected:	06/05/2007 00:00:00	Findings:	22.6 MG/L
Chemical:	SODIUM		
Sample Collected:	06/05/2007 00:00:00	Findings:	24.2 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	06/05/2007 00:00:00	Findings:	16 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	06/05/2007 00:00:00	Findings:	690 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	06/05/2007 00:00:00	Findings:	7.42
Chemical:	PH, LABORATORY		
Sample Collected:	06/05/2007 00:00:00	Findings:	290 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	06/05/2007 00:00:00	Findings:	302 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	06/05/2007 00:00:00	Findings:	81.3 MG/L
Chemical:	CALCIUM		
Sample Collected:	05/01/2007 00:00:00	Findings:	9.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05/01/2007 00:00:00	Findings:	22 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/05/2007 00:00:00	Findings:	30.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/05/2007 00:00:00	Findings:	11 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04/05/2007 00:00:00	Findings:	30 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/03/2007 00:00:00	Findings:	29 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/03/2007 00:00:00	Findings:	12 UG/L
Chemical:	TETRACHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03/14/2007 00:00:00	Findings:	29.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/07/2007 00:00:00	Findings:	9.9 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03/07/2007 00:00:00	Findings:	24 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02/06/2007 00:00:00	Findings:	14 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/06/2007 00:00:00	Findings:	37 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01/16/2007 00:00:00	Findings:	27.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01/16/2007 00:00:00	Findings:	24 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01/16/2007 00:00:00	Findings:	10 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12/05/2006 00:00:00	Findings:	34 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12/05/2006 00:00:00	Findings:	14 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12/05/2006 00:00:00	Findings:	27.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11/14/2006 00:00:00	Findings:	36 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11/14/2006 00:00:00	Findings:	15 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11/06/2006 00:00:00	Findings:	13 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11/06/2006 00:00:00	Findings:	32 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10/11/2006 00:00:00	Findings:	14 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10/11/2006 00:00:00	Findings:	30.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/11/2006 00:00:00	Findings:	37 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10/02/2006 00:00:00	Findings:	14 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10/02/2006 00:00:00	Findings:	34 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09/12/2006 00:00:00	Findings:	13 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09/12/2006 00:00:00	Findings:	34 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09/12/2006 00:00:00	Findings:	28.7 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06/06/2006 00:00:00	Findings:	12 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06/06/2006 00:00:00	Findings:	29.6 MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	06/06/2006 00:00:00	Findings:	34 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05/02/2006 00:00:00	Findings:	12 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05/02/2006 00:00:00	Findings:	37 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/18/2006 00:00:00	Findings:	11 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04/18/2006 00:00:00	Findings:	39 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/18/2006 00:00:00	Findings:	30.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/04/2006 00:00:00	Findings:	.7 UG/L
Chemical:	CARBON TETRACHLORIDE		
Sample Collected:	04/04/2006 00:00:00	Findings:	19 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04/04/2006 00:00:00	Findings:	47 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03/08/2006 00:00:00	Findings:	.51 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	03/08/2006 00:00:00	Findings:	440 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03/08/2006 00:00:00	Findings:	32.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/08/2006 00:00:00	Findings:	.15 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	03/08/2006 00:00:00	Findings:	32.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/08/2006 00:00:00	Findings:	.8 UG/L
Chemical:	CARBON TETRACHLORIDE		
Sample Collected:	03/08/2006 00:00:00	Findings:	15.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03/08/2006 00:00:00	Findings:	40.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03/08/2006 00:00:00	Findings:	24.1 MG/L
Chemical:	CHLORIDE		
Sample Collected:	03/08/2006 00:00:00	Findings:	1.65 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03/08/2006 00:00:00	Findings:	19.5 MG/L
Chemical:	SODIUM		
Sample Collected:	03/08/2006 00:00:00	Findings:	20.5 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03/08/2006 00:00:00	Findings:	82 MG/L
Chemical:	CALCIUM		
Sample Collected:	03/08/2006 00:00:00	Findings:	289 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	03/08/2006 00:00:00	Findings:	308 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	03/08/2006 00:00:00	Findings:	253 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03/08/2006 00:00:00	Findings:	7.21
Chemical:	PH, LABORATORY		
Sample Collected:	03/08/2006 00:00:00	Findings:	630 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	02/07/2006 00:00:00	Findings:	8.9 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/07/2006 00:00:00	Findings:	36 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02/07/2006 00:00:00	Findings:	.6 UG/L
Chemical:	CARBON TETRACHLORIDE		
Sample Collected:	01/18/2006 00:00:00	Findings:	.8 UG/L
Chemical:	CARBON TETRACHLORIDE		
Sample Collected:	01/18/2006 00:00:00	Findings:	45 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01/18/2006 00:00:00	Findings:	33.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01/18/2006 00:00:00	Findings:	15.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01/05/2006 00:00:00	Findings:	14 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01/05/2006 00:00:00	Findings:	.8 UG/L
Chemical:	CARBON TETRACHLORIDE		
Sample Collected:	01/05/2006 00:00:00	Findings:	36 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12/06/2005 00:00:00	Findings:	31.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/06/2005 00:00:00	Findings:	12.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12/06/2005 00:00:00	Findings:	35.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11/02/2005 00:00:00	Findings:	14 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11/02/2005 00:00:00	Findings:	41 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10/17/2005 00:00:00	Findings:	.56 UG/L
Chemical:	CARBON TETRACHLORIDE		
Sample Collected:	10/17/2005 00:00:00	Findings:	7 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	10/17/2005 00:00:00	Findings:	13 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10/17/2005 00:00:00	Findings:	7.1 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	10/17/2005 00:00:00	Findings:	.7 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10/17/2005 00:00:00	Findings:	31.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/17/2005 00:00:00	Findings:	37 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10/04/2005 00:00:00	Findings:	13 UG/L
Chemical:	TETRACHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10/04/2005 00:00:00	Findings:	42 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09/06/2005 00:00:00	Findings:	.49 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	09/06/2005 00:00:00	Findings:	380 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	09/06/2005 00:00:00	Findings:	30.7 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/06/2005 00:00:00	Findings:	23 MG/L
Chemical:	CHLORIDE		
Sample Collected:	09/06/2005 00:00:00	Findings:	1.55 MG/L
Chemical:	POTASSIUM		
Sample Collected:	09/06/2005 00:00:00	Findings:	20.6 MG/L
Chemical:	SODIUM		
Sample Collected:	09/06/2005 00:00:00	Findings:	22.5 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	09/06/2005 00:00:00	Findings:	87.3 MG/L
Chemical:	CALCIUM		
Sample Collected:	09/06/2005 00:00:00	Findings:	310 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	09/06/2005 00:00:00	Findings:	296 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	09/06/2005 00:00:00	Findings:	243 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	09/06/2005 00:00:00	Findings:	7.63
Chemical:	PH, LABORATORY		
Sample Collected:	09/06/2005 00:00:00	Findings:	620 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	09/06/2005 00:00:00	Findings:	.15 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	09/06/2005 00:00:00	Findings:	30.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/06/2005 00:00:00	Findings:	32 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09/06/2005 00:00:00	Findings:	12 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09/06/2005 00:00:00	Findings:	.6 UG/L
Chemical:	CARBON TETRACHLORIDE		
Sample Collected:	08/02/2005 00:00:00	Findings:	11 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08/02/2005 00:00:00	Findings:	35 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07/18/2005 00:00:00	Findings:	6 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	07/18/2005 00:00:00	Findings:	.48 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	07/18/2005 00:00:00	Findings:	9.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/18/2005 00:00:00	Findings:	31 UG/L
Chemical:	TRICHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	07/18/2005 00:00:00	Findings:	30.7 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07/18/2005 00:00:00	Findings:	3.3 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	07/18/2005 00:00:00	Findings:	.7 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07/05/2005 00:00:00	Findings:	34 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07/05/2005 00:00:00	Findings:	13 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06/07/2005 00:00:00	Findings:	41 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06/07/2005 00:00:00	Findings:	20 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06/07/2005 00:00:00	Findings:	6.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05/03/2005 00:00:00	Findings:	19 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05/03/2005 00:00:00	Findings:	8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04/20/2005 00:00:00	Findings:	21.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/20/2005 00:00:00	Findings:	15.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/20/2005 00:00:00	Findings:	6.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04/20/2005 00:00:00	Findings:	2.8 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	04/20/2005 00:00:00	Findings:	5 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	04/06/2005 00:00:00	Findings:	22 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/06/2005 00:00:00	Findings:	8.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03/01/2005 00:00:00	Findings:	410 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03/01/2005 00:00:00	Findings:	29.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/01/2005 00:00:00	Findings:	.53 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	03/01/2005 00:00:00	Findings:	23 MG/L
Chemical:	CHLORIDE		
Sample Collected:	03/01/2005 00:00:00	Findings:	2.18 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03/01/2005 00:00:00	Findings:	22.3 MG/L
Chemical:	SODIUM		
Sample Collected:	03/01/2005 00:00:00	Findings:	25.8 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03/01/2005 00:00:00	Findings:	90.5 MG/L
Chemical:	CALCIUM		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03/01/2005 00:00:00	Findings:	332 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO <sub>3</sub>		
Sample Collected:	03/01/2005 00:00:00	Findings:	293 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	03/01/2005 00:00:00	Findings:	240 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO <sub>3</sub>		
Sample Collected:	03/01/2005 00:00:00	Findings:	7.51
Chemical:	PH, LABORATORY		
Sample Collected:	03/01/2005 00:00:00	Findings:	626 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03/01/2005 00:00:00	Findings:	29.9 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	03/01/2005 00:00:00	Findings:	26 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03/01/2005 00:00:00	Findings:	8.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/02/2005 00:00:00	Findings:	27 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02/02/2005 00:00:00	Findings:	10 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01/05/2005 00:00:00	Findings:	9.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01/05/2005 00:00:00	Findings:	3.3 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	01/05/2005 00:00:00	Findings:	6 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	01/05/2005 00:00:00	Findings:	25 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01/05/2005 00:00:00	Findings:	30.6 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	01/05/2005 00:00:00	Findings:	4 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	01/04/2005 00:00:00	Findings:	12 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01/04/2005 00:00:00	Findings:	32 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12/07/2004 00:00:00	Findings:	7.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12/07/2004 00:00:00	Findings:	20 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12/07/2004 00:00:00	Findings:	28.8 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	11/30/2004 00:00:00	Findings:	28 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11/30/2004 00:00:00	Findings:	8.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11/30/2004 00:00:00	Findings:	33.2 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	11/02/2004 00:00:00	Findings:	23 UG/L
Chemical:	TRICHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	11/02/2004 00:00:00	Findings:	11 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10/05/2004 00:00:00	Findings:	7.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10/05/2004 00:00:00	Findings:	21 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09/07/2004 00:00:00	Findings:	8.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09/07/2004 00:00:00	Findings:	29.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/07/2004 00:00:00	Findings:	23 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08/24/2004 00:00:00	Findings:	293 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	08/24/2004 00:00:00	Findings:	318 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	08/24/2004 00:00:00	Findings:	88.3 MG/L
Chemical:	CALCIUM		
Sample Collected:	08/24/2004 00:00:00	Findings:	23.7 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	08/24/2004 00:00:00	Findings:	19.2 MG/L
Chemical:	SODIUM		
Sample Collected:	08/24/2004 00:00:00	Findings:	1.76 MG/L
Chemical:	POTASSIUM		
Sample Collected:	08/24/2004 00:00:00	Findings:	22 MG/L
Chemical:	CHLORIDE		
Sample Collected:	08/24/2004 00:00:00	Findings:	240 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	08/24/2004 00:00:00	Findings:	7.99
Chemical:	PH, LABORATORY		
Sample Collected:	08/24/2004 00:00:00	Findings:	623 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	08/24/2004 00:00:00	Findings:	30 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/24/2004 00:00:00	Findings:	406 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	08/24/2004 00:00:00	Findings:	.48 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	08/24/2004 00:00:00	Findings:	66 UG/L
Chemical:	COPPER		
Sample Collected:	08/10/2004 00:00:00	Findings:	9.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08/10/2004 00:00:00	Findings:	33 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08/10/2004 00:00:00	Findings:	30.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/03/2004 00:00:00	Findings:	8.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08/03/2004 00:00:00	Findings:	20 UG/L
Chemical:	TRICHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	07/06/2004 00:00:00	Findings:	20 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07/06/2004 00:00:00	Findings:	7.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06/01/2004 00:00:00	Findings:	28.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06/01/2004 00:00:00	Findings:	8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06/01/2004 00:00:00	Findings:	21.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05/04/2004 00:00:00	Findings:	24 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05/04/2004 00:00:00	Findings:	10 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04/14/2004 00:00:00	Findings:	5.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04/14/2004 00:00:00	Findings:	12.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/14/2004 00:00:00	Findings:	19 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/06/2004 00:00:00	Findings:	13 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04/06/2004 00:00:00	Findings:	29 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03/03/2004 00:00:00	Findings:	11 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03/03/2004 00:00:00	Findings:	26 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03/03/2004 00:00:00	Findings:	31 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02/10/2004 00:00:00	Findings:	21 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02/10/2004 00:00:00	Findings:	340 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	02/10/2004 00:00:00	Findings:	.59 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	02/10/2004 00:00:00	Findings:	18 MG/L
Chemical:	CHLORIDE		
Sample Collected:	02/10/2004 00:00:00	Findings:	1.4 MG/L
Chemical:	POTASSIUM		
Sample Collected:	02/10/2004 00:00:00	Findings:	23 MG/L
Chemical:	SODIUM		
Sample Collected:	02/10/2004 00:00:00	Findings:	19 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	02/10/2004 00:00:00	Findings:	70 MG/L
Chemical:	CALCIUM		
Sample Collected:	02/10/2004 00:00:00	Findings:	250 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	02/10/2004 00:00:00	Findings:	250 MG/L
Chemical:	BICARBONATE ALKALINITY		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	02/10/2004 00:00:00	Findings:	210 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO <sub>3</sub>		
Sample Collected:	02/10/2004 00:00:00	Findings:	7.57
Chemical:	PH, LABORATORY		
Sample Collected:	02/10/2004 00:00:00	Findings:	540 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	02/10/2004 00:00:00	Findings:	.299
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	02/03/2004 00:00:00	Findings:	9.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/03/2004 00:00:00	Findings:	25 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01/12/2004 00:00:00	Findings:	27.7 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	01/12/2004 00:00:00	Findings:	20.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01/12/2004 00:00:00	Findings:	7.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01/06/2004 00:00:00	Findings:	22 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01/06/2004 00:00:00	Findings:	11 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12/03/2003 00:00:00	Findings:	20 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	12/03/2003 00:00:00	Findings:	6.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12/03/2003 00:00:00	Findings:	12 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11/04/2003 00:00:00	Findings:	15 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11/04/2003 00:00:00	Findings:	8.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10/30/2003 00:00:00	Findings:	26.8 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	10/30/2003 00:00:00	Findings:	9.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10/30/2003 00:00:00	Findings:	6.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10/07/2003 00:00:00	Findings:	19 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10/07/2003 00:00:00	Findings:	28 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	10/07/2003 00:00:00	Findings:	11 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10/07/2003 00:00:00	Findings:	360 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10/07/2003 00:00:00	Findings:	.54 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	10/07/2003 00:00:00	Findings:	24 MG/L
Chemical:	CHLORIDE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10/07/2003 00:00:00	Findings:	1.8 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10/07/2003 00:00:00	Findings:	21 MG/L
Chemical:	SODIUM		
Sample Collected:	10/07/2003 00:00:00	Findings:	20 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10/07/2003 00:00:00	Findings:	83 MG/L
Chemical:	CALCIUM		
Sample Collected:	10/07/2003 00:00:00	Findings:	290 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO <sub>3</sub>		
Sample Collected:	10/07/2003 00:00:00	Findings:	290 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10/07/2003 00:00:00	Findings:	240 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO <sub>3</sub>		
Sample Collected:	10/07/2003 00:00:00	Findings:	7.45
Chemical:	PH, LABORATORY		
Sample Collected:	10/07/2003 00:00:00	Findings:	630 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10/07/2003 00:00:00	Findings:	17.8 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	09/03/2003 00:00:00	Findings:	610 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	09/03/2003 00:00:00	Findings:	27 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	09/03/2003 00:00:00	Findings:	14 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09/03/2003 00:00:00	Findings:	11 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08/06/2003 00:00:00	Findings:	8.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08/06/2003 00:00:00	Findings:	12 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07/16/2003 00:00:00	Findings:	25.2 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	07/16/2003 00:00:00	Findings:	7.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/16/2003 00:00:00	Findings:	9.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06/04/2003 00:00:00	Findings:	28 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	06/04/2003 00:00:00	Findings:	14 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06/04/2003 00:00:00	Findings:	7.9 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05/06/2003 00:00:00	Findings:	9.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05/06/2003 00:00:00	Findings:	7.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04/15/2003 00:00:00	Findings:	10 UG/L
Chemical:	TRICHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	04/15/2003 00:00:00	Findings:	22 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/15/2003 00:00:00	Findings:	9.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04/01/2003 00:00:00	Findings:	7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/01/2003 00:00:00	Findings:	5.9 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03/04/2003 00:00:00	Findings:	5.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03/04/2003 00:00:00	Findings:	4.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12/11/2002 00:00:00	Findings:	8.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12/11/2002 00:00:00	Findings:	10 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12/11/2002 00:00:00	Findings:	26 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/03/2002 00:00:00	Findings:	9.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12/03/2002 00:00:00	Findings:	27 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/03/2002 00:00:00	Findings:	8.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11/05/2002 00:00:00	Findings:	9.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11/05/2002 00:00:00	Findings:	6.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09/30/2002 00:00:00	Findings:	8.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09/30/2002 00:00:00	Findings:	6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09/19/2002 00:00:00	Findings:	.53 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	09/19/2002 00:00:00	Findings:	8.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09/19/2002 00:00:00	Findings:	6.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09/19/2002 00:00:00	Findings:	22 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/03/2002 00:00:00	Findings:	5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09/03/2002 00:00:00	Findings:	26 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/03/2002 00:00:00	Findings:	8.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08/06/2002 00:00:00	Findings:	4.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08/06/2002 00:00:00	Findings:	7.5 UG/L
Chemical:	TETRACHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	07/02/2002 00:00:00	Findings:	6.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/02/2002 00:00:00	Findings:	4.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06/04/2002 00:00:00	Findings:	6.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06/04/2002 00:00:00	Findings:	4.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05/07/2002 00:00:00	Findings:	8.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05/07/2002 00:00:00	Findings:	4.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05/02/2002 00:00:00	Findings:	4.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05/02/2002 00:00:00	Findings:	8.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05/02/2002 00:00:00	Findings:	25 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/02/2002 00:00:00	Findings:	5.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/02/2002 00:00:00	Findings:	9.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03/26/2002 00:00:00	Findings:	4.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03/26/2002 00:00:00	Findings:	8.9 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03/18/2002 00:00:00	Findings:	19 MG/L
Chemical:	SODIUM		
Sample Collected:	03/18/2002 00:00:00	Findings:	19 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03/18/2002 00:00:00	Findings:	69 MG/L
Chemical:	CALCIUM		
Sample Collected:	03/18/2002 00:00:00	Findings:	250 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	03/18/2002 00:00:00	Findings:	270 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	03/18/2002 00:00:00	Findings:	220 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	03/18/2002 00:00:00	Findings:	7.4
Chemical:	PH, LABORATORY		
Sample Collected:	03/18/2002 00:00:00	Findings:	590 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03/18/2002 00:00:00	Findings:	4.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03/18/2002 00:00:00	Findings:	9.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03/18/2002 00:00:00	Findings:	2 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03/18/2002 00:00:00	Findings:	25 MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03/18/2002 00:00:00	Findings:	380 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03/18/2002 00:00:00	Findings:	.53 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	03/18/2002 00:00:00	Findings:	19 MG/L
Chemical:	CHLORIDE		
Sample Collected:	03/13/2002 00:00:00	Findings:	8.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03/13/2002 00:00:00	Findings:	4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03/05/2002 00:00:00	Findings:	4.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03/05/2002 00:00:00	Findings:	7.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/26/2002 00:00:00	Findings:	8.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/26/2002 00:00:00	Findings:	4.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02/25/2002 00:00:00	Findings:	7.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/25/2002 00:00:00	Findings:	4.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02/05/2002 00:00:00	Findings:	8.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/05/2002 00:00:00	Findings:	4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02/05/2002 00:00:00	Findings:	120 UG/L
Chemical:	BORON		
Sample Collected:	02/05/2002 00:00:00	Findings:	3.4 UG/L
Chemical:	VANADIUM		
Sample Collected:	02/05/2002 00:00:00	Findings:	8.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/05/2002 00:00:00	Findings:	4.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02/05/2002 00:00:00	Findings:	28 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01/02/2002 00:00:00	Findings:	8.4 UG/L
Chemical:	TETRACHLOROETHYLENE		

**D13  
ESE  
1/2 - 1 Mile  
Higher**

**CA WELLS 1394**

**Water System Information:**

Prime Station Code:	01S/11W-20B04 S	User ID:	4TH
FRDS Number:	1910139016	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Inactive Raw
Source Lat/Long:	340400.0 1180300.0	Precision:	Undefined
Source Name:	BLUE RIBBON WELL 02 - INACTIVE		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	340339118040502
Site name:	001S011W30B003S		
Latitude:	340339		
Longitude:	1180405	Dec lat:	34.06084356
Dec lon:	-118.06895693	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	037
Country:	US	Land net:	Not Reported
Location map:	EL MONTE	Map scale:	24000
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	Not Reported		
Altitude datum:	Not Reported		
Hydrologic:	Los Angeles. California. Area = 819 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	534	Hole depth:	534
Source of depth data:	Not Reported		
Project number:	9479335800		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

**C16**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS3160500**

Agency cd:	USGS	Site no:	340339118040501
Site name:	001S011W30B002S		
Latitude:	340339		
Longitude:	1180405	Dec lat:	34.06084356
Dec lon:	-118.06895693	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	037
Country:	US	Land net:	Not Reported
Location map:	EL MONTE	Map scale:	24000
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	Not Reported		
Altitude datum:	Not Reported		
Hydrologic:	Los Angeles. California. Area = 819 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	312	Hole depth:	312
Source of depth data:	Not Reported		
Project number:	9479335800		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

**C17**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS3290633**

Agency cd:	USGS	Site no:	340339118040801
Site name:	001S011W30B004S		
Latitude:	340339	Dec lat:	34.06084357
Longitude:	1180408	Coor meth:	M
Dec lon:	-118.06979029	Latlong datum:	NAD27
Coor accr:	S	District:	06
Dec latlong datum:	NAD83	County:	037
State:	06	Land net:	Not Reported
Country:	US	Map scale:	24000
Location map:	EL MONTE		
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	Not Reported		
Altitude datum:	Not Reported		
Hydrologic:	Los Angeles, California. Area = 819 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	580	Hole depth:	580
Source of depth data:	Not Reported		
Project number:	9479335800		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**18**  
**NW**  
**1/2 - 1 Mile**  
**Higher**

**FRDS PWS      CA1900009**

PWS ID:                      CA1900009  
 Date Initiated:            Not Reported              Date Deactivated: Not Reported  
 PWS Name:                 ADAMS RANCH MUTUAL  
                                     ROSEMEADE, CA 91770

Addressee / Facility:      System Owner/Responsible Party  
                                     ADAM RANCH MUTUAL WATER CO.  
                                     9267 E. RIO DOLL  
                                     ROSEMEAD, CA 91770

Facility Latitude:          34 04 50                      Facility Longitude: 118 04 18  
 City Served:                Not Reported  
 Treatment Class:          Untreated                      Population:                  300

Violations information not reported.

**ENFORCEMENT INFORMATION:**

Truedate:                    12/16/2008                      Pwsid:                              CA1900009  
 Pwsname:                    ADAMS RANCH MUTUAL  
 Retpopsrvd:                 300                                  Pwstypecod:                      C  
 Void:                            0412001                              Contaminant:                      COLIFORM (TCR)  
 Viol. Type:                    Monitoring, Routine Major (TCR)  
 Complperbe:                 2004-09-01 00:00:00.  
 Complperen:                 2004-09-30 00:00:00.              Enfdate:                              10-27-2004  
 Enf action:                    State AO (w/o Penalty) Issued  
 Violmeasur:                 NULL

Truedate:                    12/16/2008                      Pwsid:                              CA1900009  
 Pwsname:                    ADAMS RANCH MUTUAL  
 Retpopsrvd:                 300                                  Pwstypecod:                      C  
 Void:                            0504001                              Contaminant:                      COLIFORM (TCR)  
 Viol. Type:                    MCL, Monthly (TCR)  
 Complperbe:                 2005-01-01 00:00:00.  
 Complperen:                 2005-01-31 00:00:00.              Enfdate:                              03-25-2005  
 Enf action:                    State AO (w/o Penalty) Issued  
 Violmeasur:                 NULL

Truedate:                    12/16/2008                      Pwsid:                              CA1900009  
 Pwsname:                    ADAMS RANCH MUTUAL  
 Retpopsrvd:                 300                                  Pwstypecod:                      C  
 Void:                            95V0001                              Contaminant:                      LEAD & COPPER RULE  
 Viol. Type:                    Initial Tap Sampling for Pb and Cu  
 Complperbe:                 07-01-1993  
 Complperen:                 12-31-2025                              Enfdate:                              No Enf Action as of  
 Enf action:                    Not Reported  
 Violmeasur:                 0.000000000

System Name:                 ADAMS RANCH MUTUAL  
 Violation Type:              Monitoring, Routine Major (TCR)  
 Contaminant:                 COLIFORM (TCR)  
 Compliance Period:         9/1/2004 0:00:00 - 9/30/2004 0:00:00  
 Violation ID:                 0412001  
 Enforcement Date:          10/27/2004 0:00:00                      Enf. Action:                      State AO (w/o Penalty) Issued

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### ENFORCEMENT INFORMATION:

System Name:	ADAMS RANCH MUTUAL		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	09/01/04 - 09/30/04		
Violation ID:	0412001		
Enforcement Date:	10/27/04	Enf. Action:	State AO (w/o Penalty) Issued
System Name:	ADAMS RANCH MUTUAL		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	01/01/05 - 01/31/05		
Violation ID:	0504001		
Enforcement Date:	03/25/05	Enf. Action:	State AO (w/o Penalty) Issued
System Name:	ADAMS RANCH MUTUAL		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1/1/2005 0:00:00 - 1/31/2005 0:00:00		
Violation ID:	0504001		
Enforcement Date:	3/25/2005 0:00:00	Enf. Action:	State AO (w/o Penalty) Issued
System Name:	ADAMS RANCH MUTUAL		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	7/1/1993 0:00:00 - 12/31/2025 0:00:00		
Violation ID:	95V0001		
Enforcement Date:	No Enf Action as of	Enf. Action:	10/17/2006 0:00:00
System Name:	ADAMS RANCH MUTUAL		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	7/1/1993 0:00:00 - 12/31/2025 0:00:00		
Violation ID:	95V0001		
Enforcement Date:	4/12/2007 0:00:00	Enf. Action:	Not Reported
System Name:	ADAMS RANCH MUTUAL		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	1993-07-01 - 2015-12-31		
Violation ID:	95V0001		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	ADAMS RANCH MUTUAL		
Violation Type:	CCR Complete Failure to Report		
Contaminant:	7000		
Compliance Period:	10/19/1999 0:00:00 - 12/31/2025 0:00:00		
Violation ID:	99V0001		
Enforcement Date:	No Enf Action as of	Enf. Action:	10/17/2006 0:00:00
System Name:	ADAMS RANCH MUTUAL		
Violation Type:	CCR Complete Failure to Report		
Contaminant:	7000		
Compliance Period:	1999-10-19 - 2015-12-31		
Violation ID:	99V0001		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	ADAMS RANCH MUTUAL		
Violation Type:	CCR Complete Failure to Report		
Contaminant:	7000		
Compliance Period:	10/19/1999 0:00:00 - 12/31/2025 0:00:00		
Violation ID:	99V0001		
Enforcement Date:	4/12/2007 0:00:00	Enf. Action:	Not Reported

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

**CONTACT INFORMATION:**

Name:	ADAMS RANCH MUTUAL	Population:	300
Contact:	Dominic Cimarusti	Phone:	6263508181
Address:	9238-46 LOWER AZUSA RD. ROSEMEAD, CA 91770		

**E19  
NNW  
1/2 - 1 Mile  
Higher**

**CA WELLS 1382**

**Water System Information:**

Prime Station Code:	01S/11W-18A04 S	User ID:	MET
FRDS Number:	1910212003	County:	Los Angeles
District Number:	15	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Standby Raw
Source Lat/Long:	340500.0 1180400.0	Precision:	Undefined
Source Name:	ENCINITAS WELL 02 - STANDBY		
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:	12/10/2007 00:00:00	Findings:	1.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12/10/2007 00:00:00	Findings:	5.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11/26/2007 00:00:00	Findings:	1.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11/26/2007 00:00:00	Findings:	13.7 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11/26/2007 00:00:00	Findings:	6.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11/13/2007 00:00:00	Findings:	1.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11/13/2007 00:00:00	Findings:	5.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09/11/2007 00:00:00	Findings:	1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09/11/2007 00:00:00	Findings:	5.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08/14/2007 00:00:00	Findings:	1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08/14/2007 00:00:00	Findings:	5.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08/14/2007 00:00:00	Findings:	13.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/13/2007 00:00:00	Findings:	5.6 UG/L
Chemical:	TRICHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	08/13/2007 00:00:00	Findings:	1.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/09/2007 00:00:00	Findings:	.88 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/09/2007 00:00:00	Findings:	5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06/11/2007 00:00:00	Findings:	5.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06/11/2007 00:00:00	Findings:	1.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05/29/2007 00:00:00	Findings:	5.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05/29/2007 00:00:00	Findings:	12.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05/29/2007 00:00:00	Findings:	1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05/07/2007 00:00:00	Findings:	6.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05/07/2007 00:00:00	Findings:	1.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04/09/2007 00:00:00	Findings:	6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/09/2007 00:00:00	Findings:	1.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03/12/2007 00:00:00	Findings:	.91 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03/12/2007 00:00:00	Findings:	6.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02/12/2007 00:00:00	Findings:	1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/12/2007 00:00:00	Findings:	5.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02/08/2007 00:00:00	Findings:	.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/08/2007 00:00:00	Findings:	11 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02/08/2007 00:00:00	Findings:	4.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01/09/2007 00:00:00	Findings:	.92 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01/09/2007 00:00:00	Findings:	4.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12/11/2006 00:00:00	Findings:	5.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12/11/2006 00:00:00	Findings:	1.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11/28/2006 00:00:00	Findings:	4.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11/28/2006 00:00:00	Findings:	10.2 MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	11/28/2006 00:00:00	Findings:	.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11/13/2006 00:00:00	Findings:	6.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11/13/2006 00:00:00	Findings:	1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10/09/2006 00:00:00	Findings:	5.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10/09/2006 00:00:00	Findings:	.87 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09/11/2006 00:00:00	Findings:	1.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09/11/2006 00:00:00	Findings:	5.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08/31/2006 00:00:00	Findings:	.7 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	08/31/2006 00:00:00	Findings:	5.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08/31/2006 00:00:00	Findings:	.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08/31/2006 00:00:00	Findings:	2.4 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	08/31/2006 00:00:00	Findings:	16.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/21/2006 00:00:00	Findings:	.12 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	08/14/2006 00:00:00	Findings:	.87 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08/14/2006 00:00:00	Findings:	5.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07/10/2006 00:00:00	Findings:	1.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/10/2006 00:00:00	Findings:	6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06/12/2006 00:00:00	Findings:	1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06/12/2006 00:00:00	Findings:	5.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05/17/2006 00:00:00	Findings:	2.4 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	05/17/2006 00:00:00	Findings:	.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05/17/2006 00:00:00	Findings:	4.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05/17/2006 00:00:00	Findings:	10.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05/17/2006 00:00:00	Findings:	.7 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	05/09/2006 00:00:00	Findings:	1.3 UG/L
Chemical:	TETRACHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	05/09/2006 00:00:00	Findings:	6.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/19/2006 00:00:00	Findings:	1.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04/19/2006 00:00:00	Findings:	5.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03/14/2006 00:00:00	Findings:	1.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03/14/2006 00:00:00	Findings:	5.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02/28/2006 00:00:00	Findings:	11 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02/16/2006 00:00:00	Findings:	1.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/16/2006 00:00:00	Findings:	5.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02/09/2006 00:00:00	Findings:	.7 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	02/09/2006 00:00:00	Findings:	11.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02/09/2006 00:00:00	Findings:	2.4 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	02/09/2006 00:00:00	Findings:	.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/09/2006 00:00:00	Findings:	5.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01/25/2006 00:00:00	Findings:	7.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01/25/2006 00:00:00	Findings:	1.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12/13/2005 00:00:00	Findings:	6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12/13/2005 00:00:00	Findings:	1.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11/21/2005 00:00:00	Findings:	1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11/21/2005 00:00:00	Findings:	4.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11/21/2005 00:00:00	Findings:	11.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11/21/2005 00:00:00	Findings:	.7 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	11/21/2005 00:00:00	Findings:	2.4 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	11/15/2005 00:00:00	Findings:	12 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11/08/2005 00:00:00	Findings:	1.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11/08/2005 00:00:00	Findings:	6.7 UG/L
Chemical:	TRICHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	09/13/2005 00:00:00	Findings:	6.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09/13/2005 00:00:00	Findings:	1.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08/31/2005 00:00:00	Findings:	11.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/31/2005 00:00:00	Findings:	3.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08/31/2005 00:00:00	Findings:	.69 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	07/12/2005 00:00:00	Findings:	7.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07/12/2005 00:00:00	Findings:	2.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/12/2005 00:00:00	Findings:	7.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07/12/2005 00:00:00	Findings:	1.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05/17/2005 00:00:00	Findings:	12.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05/17/2005 00:00:00	Findings:	7.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05/17/2005 00:00:00	Findings:	1.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05/10/2005 00:00:00	Findings:	1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05/10/2005 00:00:00	Findings:	6.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05/10/2005 00:00:00	Findings:	10 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02/09/2005 00:00:00	Findings:	19.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02/09/2005 00:00:00	Findings:	10.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02/09/2005 00:00:00	Findings:	1.9 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/08/2005 00:00:00	Findings:	2.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/08/2005 00:00:00	Findings:	13 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01/24/2005 00:00:00	Findings:	2.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01/24/2005 00:00:00	Findings:	13 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01/06/2005 00:00:00	Findings:	2.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01/06/2005 00:00:00	Findings:	9.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01/06/2005 00:00:00	Findings:	15 MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	11/22/2004 00:00:00	Findings:	12 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11/22/2004 00:00:00	Findings:	1.9 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11/17/2004 00:00:00	Findings:	10 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11/17/2004 00:00:00	Findings:	15 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11/17/2004 00:00:00	Findings:	1.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10/13/2004 00:00:00	Findings:	1.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10/13/2004 00:00:00	Findings:	18 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/13/2004 00:00:00	Findings:	12 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09/14/2004 00:00:00	Findings:	2.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09/14/2004 00:00:00	Findings:	12 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09/14/2004 00:00:00	Findings:	18 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/23/2004 00:00:00	Findings:	11.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08/23/2004 00:00:00	Findings:	1.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08/23/2004 00:00:00	Findings:	17.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/10/2004 00:00:00	Findings:	17 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/10/2004 00:00:00	Findings:	12 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08/10/2004 00:00:00	Findings:	2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/14/2004 00:00:00	Findings:	17 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07/14/2004 00:00:00	Findings:	1.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/14/2004 00:00:00	Findings:	10 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06/09/2004 00:00:00	Findings:	1.9 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06/09/2004 00:00:00	Findings:	17 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06/09/2004 00:00:00	Findings:	9.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05/11/2004 00:00:00	Findings:	2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05/11/2004 00:00:00	Findings:	17 MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	05/11/2004 00:00:00	Findings:	11 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/19/2004 00:00:00	Findings:	8.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/19/2004 00:00:00	Findings:	1.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04/19/2004 00:00:00	Findings:	16 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/13/2004 00:00:00	Findings:	16 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/13/2004 00:00:00	Findings:	12 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/13/2004 00:00:00	Findings:	2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03/11/2004 00:00:00	Findings:	1.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03/11/2004 00:00:00	Findings:	8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03/09/2004 00:00:00	Findings:	15 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02/11/2004 00:00:00	Findings:	1.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/11/2004 00:00:00	Findings:	8.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01/21/2004 00:00:00	Findings:	8.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01/21/2004 00:00:00	Findings:	1.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01/21/2004 00:00:00	Findings:	15 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01/14/2004 00:00:00	Findings:	16 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01/14/2004 00:00:00	Findings:	13 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01/14/2004 00:00:00	Findings:	2.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12/09/2003 00:00:00	Findings:	9.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12/09/2003 00:00:00	Findings:	2.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11/12/2003 00:00:00	Findings:	9.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11/12/2003 00:00:00	Findings:	2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10/20/2003 00:00:00	Findings:	1.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10/20/2003 00:00:00	Findings:	8.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10/20/2003 00:00:00	Findings:	16.5 MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10/15/2003 00:00:00	Findings:	2.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10/15/2003 00:00:00	Findings:	10 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09/10/2003 00:00:00	Findings:	10 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09/10/2003 00:00:00	Findings:	2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08/27/2003 00:00:00	Findings:	17.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/13/2003 00:00:00	Findings:	7.4
Chemical:	PH, LABORATORY		
Sample Collected:	08/13/2003 00:00:00	Findings:	11.76
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	08/13/2003 00:00:00	Findings:	.1 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	08/13/2003 00:00:00	Findings:	17 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/13/2003 00:00:00	Findings:	- .16
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	08/13/2003 00:00:00	Findings:	.53
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	08/13/2003 00:00:00	Findings:	240 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	08/13/2003 00:00:00	Findings:	180 UG/L
Chemical:	BORON		
Sample Collected:	08/13/2003 00:00:00	Findings:	.83 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	08/13/2003 00:00:00	Findings:	12 MG/L
Chemical:	CHLORIDE		
Sample Collected:	08/13/2003 00:00:00	Findings:	1.2 MG/L
Chemical:	POTASSIUM		
Sample Collected:	08/13/2003 00:00:00	Findings:	23 MG/L
Chemical:	SODIUM		
Sample Collected:	08/13/2003 00:00:00	Findings:	13 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	08/13/2003 00:00:00	Findings:	53 MG/L
Chemical:	CALCIUM		
Sample Collected:	08/13/2003 00:00:00	Findings:	180 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	08/13/2003 00:00:00	Findings:	210 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	08/13/2003 00:00:00	Findings:	170 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	08/13/2003 00:00:00	Findings:	20.7 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	08/13/2003 00:00:00	Findings:	410 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	08/06/2003 00:00:00	Findings:	8.5 UG/L
Chemical:	TRICHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	08/06/2003 00:00:00	Findings:	2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/16/2003 00:00:00	Findings:	1.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/16/2003 00:00:00	Findings:	8.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07/09/2003 00:00:00	Findings:	2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/09/2003 00:00:00	Findings:	8.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07/09/2003 00:00:00	Findings:	16 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06/11/2003 00:00:00	Findings:	6.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06/11/2003 00:00:00	Findings:	1.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05/13/2003 00:00:00	Findings:	1.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05/13/2003 00:00:00	Findings:	5.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/09/2003 00:00:00	Findings:	16 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/09/2003 00:00:00	Findings:	12 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/09/2003 00:00:00	Findings:	2.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04/08/2003 00:00:00	Findings:	1.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04/08/2003 00:00:00	Findings:	7.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03/11/2003 00:00:00	Findings:	1.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03/11/2003 00:00:00	Findings:	7.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02/11/2003 00:00:00	Findings:	6.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02/11/2003 00:00:00	Findings:	1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01/22/2003 00:00:00	Findings:	1.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01/22/2003 00:00:00	Findings:	9.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01/22/2003 00:00:00	Findings:	15 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/10/2002 00:00:00	Findings:	10 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12/10/2002 00:00:00	Findings:	1.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11/13/2002 00:00:00	Findings:	8.4 UG/L
Chemical:	TRICHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	11/13/2002 00:00:00	Findings:	1.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10/29/2002 00:00:00	Findings:	2.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10/29/2002 00:00:00	Findings:	9.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10/29/2002 00:00:00	Findings:	15 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/15/2002 00:00:00	Findings:	13 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/08/2002 00:00:00	Findings:	6.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10/08/2002 00:00:00	Findings:	2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09/10/2002 00:00:00	Findings:	5.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09/10/2002 00:00:00	Findings:	1.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/31/2002 00:00:00	Findings:	.83 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	07/31/2002 00:00:00	Findings:	12 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07/31/2002 00:00:00	Findings:	6.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07/31/2002 00:00:00	Findings:	2.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/31/2002 00:00:00	Findings:	5.2 UG/L
Chemical:	VANADIUM		
Sample Collected:	07/31/2002 00:00:00	Findings:	190 UG/L
Chemical:	BORON		
Sample Collected:	07/23/2002 00:00:00	Findings:	1.9 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/23/2002 00:00:00	Findings:	5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07/10/2002 00:00:00	Findings:	4.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07/10/2002 00:00:00	Findings:	1.9 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06/18/2002 00:00:00	Findings:	1.9 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06/18/2002 00:00:00	Findings:	.98 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06/18/2002 00:00:00	Findings:	6.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05/21/2002 00:00:00	Findings:	14 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05/15/2002 00:00:00	Findings:	3.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/09/2002 00:00:00	Findings:	4.8 UG/L
Chemical:	TRICHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	04/09/2002 00:00:00	Findings:	1.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03/12/2002 00:00:00	Findings:	6.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03/12/2002 00:00:00	Findings:	2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/13/2002 00:00:00	Findings:	2.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/13/2002 00:00:00	Findings:	5.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01/24/2002 00:00:00	Findings:	10 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01/24/2002 00:00:00	Findings:	3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01/24/2002 00:00:00	Findings:	.79 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	01/15/2002 00:00:00	Findings:	1.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01/15/2002 00:00:00	Findings:	5.6 UG/L
Chemical:	TRICHLOROETHYLENE		

**E20  
NNW  
1/2 - 1 Mile  
Higher**

**CA WELLS 1383**

**Water System Information:**

Prime Station Code:	01S/11W-18A05 S	User ID:	MET
FRDS Number:	1910212002	County:	Los Angeles
District Number:	15	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Standby Raw
Source Lat/Long:	340500.0 1180400.0	Precision:	Undefined
Source Name:	ENCINITAS WELL 01 - STANDBY		
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:	10/24/2007 00:00:00	Findings:	1.1 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07/02/2007 00:00:00	Findings:	1.4 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06/19/2007 00:00:00	Findings:	1.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06/19/2007 00:00:00	Findings:	6.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06/19/2007 00:00:00	Findings:	24 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05/14/2007 00:00:00	Findings:	1.8 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03/29/2007 00:00:00	Findings:	6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03/29/2007 00:00:00	Findings:	250 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03/29/2007 00:00:00	Findings:	.608
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	03/29/2007 00:00:00	Findings:	.038
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	03/29/2007 00:00:00	Findings:	20 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/29/2007 00:00:00	Findings:	.54 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	03/29/2007 00:00:00	Findings:	11.9
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	03/29/2007 00:00:00	Findings:	4600 UG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	03/29/2007 00:00:00	Findings:	62 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	03/29/2007 00:00:00	Findings:	430 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03/29/2007 00:00:00	Findings:	7.58
Chemical:	PH, LABORATORY		
Sample Collected:	03/29/2007 00:00:00	Findings:	170 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	03/29/2007 00:00:00	Findings:	210 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	03/29/2007 00:00:00	Findings:	180 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	03/29/2007 00:00:00	Findings:	49 MG/L
Chemical:	CALCIUM		
Sample Collected:	03/29/2007 00:00:00	Findings:	13 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03/29/2007 00:00:00	Findings:	26 MG/L
Chemical:	SODIUM		
Sample Collected:	03/29/2007 00:00:00	Findings:	1.5 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03/29/2007 00:00:00	Findings:	11 MG/L
Chemical:	CHLORIDE		
Sample Collected:	03/29/2007 00:00:00	Findings:	110 UG/L
Chemical:	IRON		
Sample Collected:	03/29/2007 00:00:00	Findings:	1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05/17/2006 00:00:00	Findings:	.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05/17/2006 00:00:00	Findings:	23.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05/17/2006 00:00:00	Findings:	5.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03/07/2006 00:00:00	Findings:	1.8 UG/L
Chemical:	TETRACHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03/07/2006 00:00:00	Findings:	8.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03/07/2006 00:00:00	Findings:	29.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/07/2006 00:00:00	Findings:	2.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03/07/2006 00:00:00	Findings:	12 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03/07/2006 00:00:00	Findings:	30 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/13/2004 00:00:00	Findings:	25 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/09/2003 00:00:00	Findings:	24 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/09/2003 00:00:00	Findings:	19 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12/09/2003 00:00:00	Findings:	3.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12/09/2003 00:00:00	Findings:	4.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	11/12/2003 00:00:00	Findings:	2.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11/12/2003 00:00:00	Findings:	12 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10/22/2003 00:00:00	Findings:	3.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10/22/2003 00:00:00	Findings:	19 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09/10/2003 00:00:00	Findings:	18 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09/10/2003 00:00:00	Findings:	3.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08/27/2003 00:00:00	Findings:	.65 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	08/27/2003 00:00:00	Findings:	29.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/13/2003 00:00:00	Findings:	15 MG/L
Chemical:	CHLORIDE		
Sample Collected:	08/13/2003 00:00:00	Findings:	1 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	08/13/2003 00:00:00	Findings:	20.4 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	08/13/2003 00:00:00	Findings:	460 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	08/13/2003 00:00:00	Findings:	7.3
Chemical:	PH, LABORATORY		
Sample Collected:	08/13/2003 00:00:00	Findings:	170 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	08/13/2003 00:00:00	Findings:	210 MG/L
Chemical:	BICARBONATE ALKALINITY		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	08/13/2003 00:00:00	Findings:	200 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO <sub>3</sub>		
Sample Collected:	08/13/2003 00:00:00	Findings:	59 MG/L
Chemical:	CALCIUM		
Sample Collected:	08/13/2003 00:00:00	Findings:	16 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	08/13/2003 00:00:00	Findings:	23 MG/L
Chemical:	SODIUM		
Sample Collected:	08/13/2003 00:00:00	Findings:	1.5 MG/L
Chemical:	POTASSIUM		
Sample Collected:	08/13/2003 00:00:00	Findings:	11.71
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	08/13/2003 00:00:00	Findings:	.79 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	08/13/2003 00:00:00	Findings:	180 UG/L
Chemical:	BORON		
Sample Collected:	08/13/2003 00:00:00	Findings:	240 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	08/13/2003 00:00:00	Findings:	.47
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	08/13/2003 00:00:00	Findings:	- .22
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	08/13/2003 00:00:00	Findings:	29 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	08/06/2003 00:00:00	Findings:	20 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08/06/2003 00:00:00	Findings:	3.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/16/2003 00:00:00	Findings:	3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/16/2003 00:00:00	Findings:	19 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07/09/2003 00:00:00	Findings:	19 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07/09/2003 00:00:00	Findings:	3.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/09/2003 00:00:00	Findings:	26 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		
Sample Collected:	06/11/2003 00:00:00	Findings:	16 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06/11/2003 00:00:00	Findings:	2.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05/13/2003 00:00:00	Findings:	16 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05/13/2003 00:00:00	Findings:	1.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04/09/2003 00:00:00	Findings:	3.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04/09/2003 00:00:00	Findings:	22 MG/L
Chemical:	NITRATE (AS NO <sub>3</sub> )		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	04/09/2003 00:00:00	Findings:	21 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/08/2003 00:00:00	Findings:	1.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04/08/2003 00:00:00	Findings:	7.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03/11/2003 00:00:00	Findings:	7.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03/11/2003 00:00:00	Findings:	.85 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/11/2003 00:00:00	Findings:	7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02/11/2003 00:00:00	Findings:	.93 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01/22/2003 00:00:00	Findings:	22 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/10/2002 00:00:00	Findings:	1.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12/10/2002 00:00:00	Findings:	10 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11/13/2002 00:00:00	Findings:	3.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11/13/2002 00:00:00	Findings:	1.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10/22/2002 00:00:00	Findings:	14 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/08/2002 00:00:00	Findings:	2.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10/08/2002 00:00:00	Findings:	12 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09/10/2002 00:00:00	Findings:	11 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09/10/2002 00:00:00	Findings:	2.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/31/2002 00:00:00	Findings:	2.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/31/2002 00:00:00	Findings:	12 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07/31/2002 00:00:00	Findings:	19 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07/23/2002 00:00:00	Findings:	10 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07/23/2002 00:00:00	Findings:	1.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/23/2002 00:00:00	Findings:	18 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07/09/2002 00:00:00	Findings:	11 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07/09/2002 00:00:00	Findings:	1.4 UG/L
Chemical:	TETRACHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	05/21/2002 00:00:00	Findings:	24 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05/15/2002 00:00:00	Findings:	9.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/18/2002 00:00:00	Findings:	13 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/18/2002 00:00:00	Findings:	2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04/09/2002 00:00:00	Findings:	1.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04/09/2002 00:00:00	Findings:	8.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03/12/2002 00:00:00	Findings:	9.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03/12/2002 00:00:00	Findings:	1.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/13/2002 00:00:00	Findings:	1.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/13/2002 00:00:00	Findings:	8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01/24/2002 00:00:00	Findings:	2.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01/24/2002 00:00:00	Findings:	14 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01/15/2002 00:00:00	Findings:	1.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01/15/2002 00:00:00	Findings:	7.9 UG/L
Chemical:	TRICHLOROETHYLENE		

**E21  
NNW  
1/2 - 1 Mile  
Higher**

**CA WELLS 1384**

**Water System Information:**

Prime Station Code:	01S/11W-18A06 S	User ID:	MET
FRDS Number:	1910212004	County:	Los Angeles
District Number:	15	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340500.0 1180400.0	Precision:	Undefined
Source Name:	ENCINITAS WELL 03		
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:	12/10/2007 00:00:00	Findings:	2.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12/10/2007 00:00:00	Findings:	8.6 UG/L
Chemical:	TRICHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	11/26/2007 00:00:00	Findings:	3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11/26/2007 00:00:00	Findings:	15.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11/26/2007 00:00:00	Findings:	10 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11/13/2007 00:00:00	Findings:	2.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11/13/2007 00:00:00	Findings:	7.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09/11/2007 00:00:00	Findings:	2.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09/11/2007 00:00:00	Findings:	8.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08/14/2007 00:00:00	Findings:	2.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08/14/2007 00:00:00	Findings:	7.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08/14/2007 00:00:00	Findings:	15.7 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/13/2007 00:00:00	Findings:	7.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08/13/2007 00:00:00	Findings:	2.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/09/2007 00:00:00	Findings:	2.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/09/2007 00:00:00	Findings:	7.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06/11/2007 00:00:00	Findings:	7.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06/11/2007 00:00:00	Findings:	2.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05/29/2007 00:00:00	Findings:	7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05/29/2007 00:00:00	Findings:	15.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05/29/2007 00:00:00	Findings:	2.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05/07/2007 00:00:00	Findings:	8.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05/07/2007 00:00:00	Findings:	3.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04/09/2007 00:00:00	Findings:	9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/09/2007 00:00:00	Findings:	4.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03/12/2007 00:00:00	Findings:	3.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03/12/2007 00:00:00	Findings:	7.5 UG/L
Chemical:	TRICHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	02/12/2007 00:00:00	Findings:	4.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/12/2007 00:00:00	Findings:	7.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02/08/2007 00:00:00	Findings:	2.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/08/2007 00:00:00	Findings:	15.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02/08/2007 00:00:00	Findings:	6.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01/09/2007 00:00:00	Findings:	2.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01/09/2007 00:00:00	Findings:	7.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12/11/2006 00:00:00	Findings:	6.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12/11/2006 00:00:00	Findings:	3.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11/28/2006 00:00:00	Findings:	2.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11/28/2006 00:00:00	Findings:	7.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11/28/2006 00:00:00	Findings:	14.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11/13/2006 00:00:00	Findings:	2.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11/13/2006 00:00:00	Findings:	8.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10/09/2006 00:00:00	Findings:	2.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10/09/2006 00:00:00	Findings:	8.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09/11/2006 00:00:00	Findings:	3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09/11/2006 00:00:00	Findings:	7.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08/31/2006 00:00:00	Findings:	1.9 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08/31/2006 00:00:00	Findings:	8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08/31/2006 00:00:00	Findings:	14.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/21/2006 00:00:00	Findings:	.18 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	08/14/2006 00:00:00	Findings:	7.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08/14/2006 00:00:00	Findings:	2.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/10/2006 00:00:00	Findings:	2.6 UG/L
Chemical:	TETRACHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	07/10/2006 00:00:00	Findings:	7.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06/12/2006 00:00:00	Findings:	2.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06/12/2006 00:00:00	Findings:	1.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05/17/2006 00:00:00	Findings:	14.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05/17/2006 00:00:00	Findings:	1.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05/17/2006 00:00:00	Findings:	5.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05/09/2006 00:00:00	Findings:	2.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05/09/2006 00:00:00	Findings:	1.9 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04/11/2006 00:00:00	Findings:	7.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/11/2006 00:00:00	Findings:	2.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03/14/2006 00:00:00	Findings:	3.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03/14/2006 00:00:00	Findings:	6.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02/28/2006 00:00:00	Findings:	19 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02/16/2006 00:00:00	Findings:	3.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/16/2006 00:00:00	Findings:	7.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02/09/2006 00:00:00	Findings:	1.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/09/2006 00:00:00	Findings:	16.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02/09/2006 00:00:00	Findings:	6.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01/10/2006 00:00:00	Findings:	2.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01/10/2006 00:00:00	Findings:	6.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12/13/2005 00:00:00	Findings:	2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12/13/2005 00:00:00	Findings:	6.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11/21/2005 00:00:00	Findings:	3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11/21/2005 00:00:00	Findings:	6.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11/21/2005 00:00:00	Findings:	22.2 MG/L
Chemical:	NITRATE (AS NO3)		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	11/15/2005 00:00:00	Findings:	12 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11/08/2005 00:00:00	Findings:	7.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11/08/2005 00:00:00	Findings:	4.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09/13/2005 00:00:00	Findings:	3.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09/13/2005 00:00:00	Findings:	7.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08/31/2005 00:00:00	Findings:	2.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08/31/2005 00:00:00	Findings:	7.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08/31/2005 00:00:00	Findings:	19.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/31/2005 00:00:00	Findings:	.79 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	05/17/2005 00:00:00	Findings:	2.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05/17/2005 00:00:00	Findings:	5.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05/17/2005 00:00:00	Findings:	17.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05/17/2005 00:00:00	Findings:	2.1 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	05/17/2005 00:00:00	Findings:	3 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	05/10/2005 00:00:00	Findings:	18 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05/10/2005 00:00:00	Findings:	6.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05/10/2005 00:00:00	Findings:	2.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/09/2005 00:00:00	Findings:	3 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	02/09/2005 00:00:00	Findings:	2.1 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	02/09/2005 00:00:00	Findings:	4.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02/09/2005 00:00:00	Findings:	20.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02/09/2005 00:00:00	Findings:	1.9 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/08/2005 00:00:00	Findings:	5.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02/08/2005 00:00:00	Findings:	2.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01/24/2005 00:00:00	Findings:	2.5 UG/L
Chemical:	TETRACHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	01/24/2005 00:00:00	Findings:	5.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11/17/2004 00:00:00	Findings:	5.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11/17/2004 00:00:00	Findings:	1.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11/17/2004 00:00:00	Findings:	2.1 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	11/17/2004 00:00:00	Findings:	15.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11/17/2004 00:00:00	Findings:	3 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	11/09/2004 00:00:00	Findings:	6.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11/09/2004 00:00:00	Findings:	1.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10/13/2004 00:00:00	Findings:	1.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10/13/2004 00:00:00	Findings:	17 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/13/2004 00:00:00	Findings:	5.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09/14/2004 00:00:00	Findings:	2.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09/14/2004 00:00:00	Findings:	16 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/14/2004 00:00:00	Findings:	6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08/23/2004 00:00:00	Findings:	6.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08/23/2004 00:00:00	Findings:	15.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/23/2004 00:00:00	Findings:	3 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	08/23/2004 00:00:00	Findings:	2.1 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	08/23/2004 00:00:00	Findings:	1.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08/10/2004 00:00:00	Findings:	1.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08/10/2004 00:00:00	Findings:	16 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/10/2004 00:00:00	Findings:	5.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07/14/2004 00:00:00	Findings:	16 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07/14/2004 00:00:00	Findings:	1.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/14/2004 00:00:00	Findings:	5.7 UG/L
Chemical:	TRICHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	06/09/2004 00:00:00	Findings:	5.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06/09/2004 00:00:00	Findings:	16 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06/09/2004 00:00:00	Findings:	1.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05/11/2004 00:00:00	Findings:	6.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05/11/2004 00:00:00	Findings:	1.9 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05/11/2004 00:00:00	Findings:	16 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/19/2004 00:00:00	Findings:	4.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/19/2004 00:00:00	Findings:	16.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/19/2004 00:00:00	Findings:	1.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04/13/2004 00:00:00	Findings:	1.9 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04/13/2004 00:00:00	Findings:	5.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/13/2004 00:00:00	Findings:	18 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/11/2004 00:00:00	Findings:	1.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03/11/2004 00:00:00	Findings:	4.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03/09/2004 00:00:00	Findings:	19 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02/11/2004 00:00:00	Findings:	4.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02/11/2004 00:00:00	Findings:	2.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01/26/2004 00:00:00	Findings:	19.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01/21/2004 00:00:00	Findings:	1.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01/21/2004 00:00:00	Findings:	60.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01/21/2004 00:00:00	Findings:	4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01/14/2004 00:00:00	Findings:	19 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01/14/2004 00:00:00	Findings:	7.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01/14/2004 00:00:00	Findings:	3.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12/09/2003 00:00:00	Findings:	6.7 UG/L
Chemical:	TRICHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	12/09/2003 00:00:00	Findings:	2.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11/12/2003 00:00:00	Findings:	2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11/12/2003 00:00:00	Findings:	4.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10/20/2003 00:00:00	Findings:	14.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/20/2003 00:00:00	Findings:	4.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10/20/2003 00:00:00	Findings:	1.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10/15/2003 00:00:00	Findings:	3.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10/15/2003 00:00:00	Findings:	1.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09/10/2003 00:00:00	Findings:	1.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09/10/2003 00:00:00	Findings:	4.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08/27/2003 00:00:00	Findings:	15.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/13/2003 00:00:00	Findings:	240 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	08/13/2003 00:00:00	Findings:	-.26
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	08/13/2003 00:00:00	Findings:	15 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/13/2003 00:00:00	Findings:	.1 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	08/13/2003 00:00:00	Findings:	11.67
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	08/13/2003 00:00:00	Findings:	190 UG/L
Chemical:	BORON		
Sample Collected:	08/13/2003 00:00:00	Findings:	.84 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	08/13/2003 00:00:00	Findings:	12 MG/L
Chemical:	CHLORIDE		
Sample Collected:	08/13/2003 00:00:00	Findings:	1.1 MG/L
Chemical:	POTASSIUM		
Sample Collected:	08/13/2003 00:00:00	Findings:	22 MG/L
Chemical:	SODIUM		
Sample Collected:	08/13/2003 00:00:00	Findings:	15 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	08/13/2003 00:00:00	Findings:	53 MG/L
Chemical:	CALCIUM		
Sample Collected:	08/13/2003 00:00:00	Findings:	180 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	08/13/2003 00:00:00	Findings:	210 MG/L
Chemical:	BICARBONATE ALKALINITY		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	08/13/2003 00:00:00	Findings:	180 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	08/13/2003 00:00:00	Findings:	7.3
Chemical:	PH, LABORATORY		
Sample Collected:	08/13/2003 00:00:00	Findings:	420 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	08/13/2003 00:00:00	Findings:	20.2 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	08/13/2003 00:00:00	Findings:	.44
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	08/06/2003 00:00:00	Findings:	1.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08/06/2003 00:00:00	Findings:	4.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07/16/2003 00:00:00	Findings:	1.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/16/2003 00:00:00	Findings:	4.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07/09/2003 00:00:00	Findings:	15 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07/09/2003 00:00:00	Findings:	4.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07/09/2003 00:00:00	Findings:	1.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06/11/2003 00:00:00	Findings:	1.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06/11/2003 00:00:00	Findings:	4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05/13/2003 00:00:00	Findings:	2.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05/13/2003 00:00:00	Findings:	4.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/09/2003 00:00:00	Findings:	5.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/09/2003 00:00:00	Findings:	20 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/09/2003 00:00:00	Findings:	2.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04/08/2003 00:00:00	Findings:	1.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04/08/2003 00:00:00	Findings:	5.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03/11/2003 00:00:00	Findings:	7.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03/11/2003 00:00:00	Findings:	1.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/11/2003 00:00:00	Findings:	8.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02/11/2003 00:00:00	Findings:	1.6 UG/L
Chemical:	TETRACHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	01/22/2003 00:00:00	Findings:	5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01/22/2003 00:00:00	Findings:	2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01/22/2003 00:00:00	Findings:	19 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/10/2002 00:00:00	Findings:	1.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12/10/2002 00:00:00	Findings:	9.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11/13/2002 00:00:00	Findings:	3.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11/13/2002 00:00:00	Findings:	1.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10/29/2002 00:00:00	Findings:	1.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10/29/2002 00:00:00	Findings:	16 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/29/2002 00:00:00	Findings:	5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10/15/2002 00:00:00	Findings:	15 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/08/2002 00:00:00	Findings:	2.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10/08/2002 00:00:00	Findings:	12 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09/10/2002 00:00:00	Findings:	1.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09/10/2002 00:00:00	Findings:	3.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07/31/2002 00:00:00	Findings:	5.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07/31/2002 00:00:00	Findings:	15 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07/31/2002 00:00:00	Findings:	.83 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	07/31/2002 00:00:00	Findings:	190 UG/L
Chemical:	BORON		
Sample Collected:	07/31/2002 00:00:00	Findings:	4.7 UG/L
Chemical:	VANADIUM		
Sample Collected:	07/31/2002 00:00:00	Findings:	1.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/23/2002 00:00:00	Findings:	1.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07/23/2002 00:00:00	Findings:	4.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07/09/2002 00:00:00	Findings:	4.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07/09/2002 00:00:00	Findings:	1.2 UG/L
Chemical:	TETRACHLOROETHYLENE		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	05/21/2002 00:00:00	Findings:	19 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05/15/2002 00:00:00	Findings:	6.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/18/2002 00:00:00	Findings:	2.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04/18/2002 00:00:00	Findings:	7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04/09/2002 00:00:00	Findings:	2.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04/09/2002 00:00:00	Findings:	5.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03/12/2002 00:00:00	Findings:	7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	03/12/2002 00:00:00	Findings:	2.9 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/13/2002 00:00:00	Findings:	3.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/13/2002 00:00:00	Findings:	6.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01/24/2002 00:00:00	Findings:	4.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01/24/2002 00:00:00	Findings:	11 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01/15/2002 00:00:00	Findings:	2.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01/15/2002 00:00:00	Findings:	6 UG/L
Chemical:	TRICHLOROETHYLENE		

**F22  
West  
1/2 - 1 Mile  
Higher**

**FED USGS      USGS3160503**

Agency cd:	USGS	Site no:	340414118044501
Site name:	001S011W19E003S		
Latitude:	340414		
Longitude:	1180445	Dec lat:	34.07056548
Dec lon:	-118.08006845	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	037
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	Not Reported		
Altitude datum:	Not Reported		
Hydrologic:	Los Angeles, California. Area = 819 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	9479335800		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

**F23**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS3160502**

Agency cd:	USGS	Site no:	340412118044501
Site name:	001S011W19E004S		
Latitude:	340412		
Longitude:	1180445	Dec lat:	34.07000995
Dec lon:	-118.08006845	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	037
Country:	US	Land net:	Not Reported
Location map:	EL MONTE	Map scale:	24000
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	Not Reported		
Altitude datum:	Not Reported		
Hydrologic:	Los Angeles, California. Area = 819 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	9479335800		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**24**  
**East**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS3160507**

Agency cd:	USGS	Site no:	340419118024301
Site name:	001S011W21F002S		
Latitude:	340419		
Longitude:	1180243	Dec lat:	34.07195407
Dec lon:	-118.04617843	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	037
Country:	US	Land net:	Not Reported
Location map:	EL MONTE	Map scale:	24000
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	Not Reported		
Altitude datum:	Not Reported		
Hydrologic:	Los Angeles, California. Area = 819 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	9479335800		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database EDR ID Number

**1**

**SW**

**1/4 - 1/2 Mile**

**OIL\_GAS**

**CAOG50000029117**

Apinumber:	03705498	Operator:	Exxon Mobil Corp
Lease:	Rosemead Oil Unit	Well no:	1
Field:	LOS ANGELES COUNTY	Cagasoil m2 area:	Not Reported
Map:	W1-5	Status cod:	007
Source:	hud		
Latitude:	34.067345		
Longitude:	-118.069043		
Td:	7713		
Sec:	19		
Twn:	1S	Rge:	11W
Bm:	SB		
X coord:	0		
Y coord:	0		
Zone:	Not Reported	Spuddate:	12/12/1968 00:00:00
Abanddate:	12/30/1899 00:00:00	Comments:	Not Reported
District:	1	Site id:	CAOG50000029117

**2**

**SW**

**1/2 - 1 Mile**

**OIL\_GAS**

**CAOG50000028165**

Apinumber:	03705790	Operator:	Rancho Oil Corp., Ltd.
Lease:	Harmon	Well no:	1
Field:	LOS ANGELES COUNTY	Cagasoil m2 area:	Not Reported
Map:	W1-5	Status cod:	006
Source:	hud		
Latitude:	34.062216		
Longitude:	-118.072345		
Td:	5874		
Sec:	30		
Twn:	1S	Rge:	11W
Bm:	SB		
X coord:	0		
Y coord:	0		
Zone:	Not Reported	Spuddate:	12/12/1968 00:00:00
Abanddate:	12/30/1899 00:00:00	Comments:	Not Reported
District:	1	Site id:	CAOG50000028165

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: CA Radon

### Radon Test Results

Zip	Total Sites	> 4 Pci/L	Pct. > 4 Pci/L
91731	2	0	0.00

Federal EPA Radon Zone for LOS ANGELES County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.
- : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
- : Zone 3 indoor average level < 2 pCi/L.

---

### Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## HYDROLOGIC INFORMATION

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

## 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 Services

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 Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, 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 Health Services

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

### 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**  
Professional Profiles



# Truong T. Mai, PE

Partner



Mr. Truong Mai is a Partner within ERM based in Irvine, California. He has 15 years of diverse project management and consulting experience in the environmental field. He has focused primarily on site investigation and cleanup, property redevelopment, due diligence for mergers and acquisitions, cost allocation/recovery, general environmental compliance, and regulatory support.

Mr. Mai has managed projects at numerous high-profile sites, including multiple-PRP sites, state and federal Superfund sites, Brownfields, airports, large industrial/manufacturing sites, a major national park, and military bases (active and closed). Time after time, Mr. Mai has demonstrated his ability to effectively manage all aspects of multi-million dollar environmental programs. His leadership results in successful technical strategies and regulatory negotiations, effective client communication, efficient resource allocation, budget control, and accelerated schedules to meet client objectives, where desired.

Mr. Mai has performed numerous large-scale soil vapor, indoor air, soil, and ground water investigations, with scopes including over 300 wells, in complex field settings. He has evaluated remedial alternatives, performed cost/benefit analyses, designed pilot tests and remedial systems, and managed remedial construction activities. His specific experience includes in situ chemical oxidation, soil vapor extraction, air sparging, ground water extraction and treatment, and injections at sites impacted with chlorinated solvents, hydrocarbons, metals, pesticides, and emerging compounds. He also has extensive regulatory agency negotiation experience with state and local agencies.

## Professional Affiliations & Registrations

- Professional Engineer (Civil), California (#C63484)

## Fields of Competence

- Project management
- Regulatory agency negotiations and site closure
- Soil and ground water investigation
- Remedial alternatives evaluations
- Remedial design
- Remedial cost estimation
- Construction management
- Remediation system installation, startup, operation, maintenance, and monitoring
- Traditional and innovative remediation technologies
- Surface water hydrology
- Water resources management
- Spill Prevention, Control and Countermeasure (SPCC) plans

## Education

- B.S., Civil/Environmental Engineering, University of California at Davis, 1994

## Languages

- English, native speaker

## Key Industry Sectors

- Legal and Financial
- Aerospace
- Transportation
- Government
- Chemical
- Oil & Gas
- Waste Management Services

## Key Projects

### **Old Hammer Field, Fresno, California, City of Fresno, Boeing Company, USACE, NGB, 2003-present.**

#### **Project Manager/Project Coordinator**

Served as Project Manager/Project Coordinator for multiple-potentially responsible parties (PRPs), \$10-million+ remediation project at Fresno-Yosemite International Airport. Project scope included implementation of State-approved remedy to address 2-mile long chlorinated VOC plume originating from airport. Remedy consisted of source area soil vapor extraction, in situ chemical oxidation using potassium permanganate, and large-scale pump and treat at two locations within plume boundary, including wellhead treatment of a 1,700-gpm supply well and 600-gpm toe-of-plume extraction and treatment system. The remedial action construction tasks have been completed. The initial 3 years of system operation and maintenance indicated that the overall remedy is extremely effective, with the source area actions anticipated to meet remedial objectives earlier than originally expected. Served as moderator for PRP group and primary contact for regulatory negotiations with DTSC and RWQCB. Provided litigation support to PRP group during legal actions with neighboring water purveyors. Supported PRP group during negotiation with insurance carriers for liability transfer/buyout options and potential global settlement/cashout.

### **El Monte Operable Unit, San Gabriel Valley, CA Superfund Site, PRP Group, 1997-2003. Project Engineer/Regulatory Support**

Provided overall support for 21 PRPs at VOC-impacted groundwater plume encompassing more than 5 square miles and involved multiple aquifers. Evaluated remedial options and provided input to PRP group and USEPA regarding remedy and cost allocation. Supported PRP group during mediations, which resulted in favorable cash-out settlement for client.

### **Former Turco Facility, Carson, California, Black Equities, LLC and Legacy Site Services, LLC, 2006-present. Principal-in-Charge**

Directed a large-scale, complex site investigation and remediation project under RCRA requirements. ERM was initially retained by the client group (2 PRPs) to negotiate a RCRA Consent Agreement. With the help of outside counsel, ERM negotiated a streamlined agreement that minimizes reporting and regulatory costs for the implementation of a RCRA facility investigation

and cleanup. The client group then retained ERM to implement the scope of the agreement. The project site is a former chemical mixing/manufacturing facility with onsite and offsite soil and groundwater impacts, predominantly with CVOCs. To date, specific tasks completed include:

1. Soil, soil vapor, groundwater, and indoor air investigation;
2. Risk assessment;
3. Pilot testing;
4. Interim measure design, permitting, construction, and operation; and
5. Community outreach, including several public meetings.

To date, our efficient management and implementation of project activities, including aggressive regulatory negotiations, have save the client group over \$500,000.

### **Former Ametek Manufacturing Facility, El Cajon, California, Ametek, 2006-present. Principle-in-Charge**

Directed site investigation and remediation activities to address residual impacts from historical manufacturing operations. A nearly 2-mile long plume is believed to have originated from this site. VOCs are detected in groundwater in both alluvium and fractured bedrock conditions. Vapor intrusion risks and the large extent of the impacted groundwater are the primary drivers for this project. A large portion of the initial efforts includes supporting the client during negotiations to rescind outdated orders and to reduce historical fines and Notices of Violations. Our efforts resulted in significant monetary savings to the client. The current project focus is to continue the groundwater investigation and risk assessment activities and to develop interim remedial measures to address the most sensitive receptors.

### **Confidential Refinery, Southern California, Confidential Client, 2004-present. Technical and Regulatory Support**

Provided the client and ERM project team with senior technical and regulatory support for all aspects of a large, multi-year, multi-project program at this major refinery. in the Los Angeles Basin. The program includes:

1. Product recovery at over 1,000,000 gallons per year;
2. In situ chemical reductions of dissolved metals in perched groundwater;
3. Groundwater extraction and treatment – average of 900 gpm;
4. Multiple investigations;
5. RCRA investigation;

6. Community outreach; and
7. Litigation support.

**Microsemi, Santa Ana, California, 2007-present.  
Principal-in-Charge**

Assisted the client during negotiations of the sales of the property. Directed the implementation of remedial actions at a former electronic manufacturing facility. Onsite soil and groundwater are impacted CVOs. The remedy includes SVE, limited source removal, and ongoing site monitoring. Although the remedial techniques are common and straight-forward, implementation is complicated by site redevelopment, particularly frequent changes in development plan and schedule. ERM designed and staged the remedial activities to be compatible with site redevelopment activities, often requiring very rapid responses and expedited schedules for nearly all tasks.

**717 Facility, Long Beach, California, Boeing Realty Corporation, 2007. Principal- in-Charge**

Directed a large scale remedial action to address hexavalent chromium impacted groundwater. ERM was retained by Boeing Realty Corporation to implement an in situ chemical reduction project using injected reagents to reduce hexavalent chromium concentrations in groundwater beneath a former aircraft manufacturing facility. The project included the injection of approximately 900,000 gallons of 3% calcium polysulfide into 180 injection points at depth varying from approximately 20 to 70 feet below ground surface. ERM developed efficient mixing and injecting procedures, completed all site work on schedule, and adhered to all safety requirements without incident. The client is extremely satisfied with the project implementation and is considering similar injection approaches at other sites.

**Former Canon Facility, Costa Mesa, California, Canon USA, 2002-2006. Project Manager**

Managed due diligence effort and subsequent expedited site investigation and remediation program for 23-acre industrial property in Costa Mesa, CA. Main objective of environmental effort was to obtain regulatory closure of site as quickly as possible to allow for site redevelopment and reuse. Completed comprehensive soil and ground water investigation in less than 6 months. Investigation components included soil gas survey, preliminary direct-push soil and ground water sampling, monitoring well installation and sampling, cone penetrometer testing, and HydroPunch ground water sampling. Obtained regulatory approval from County Environmental Health

and Los Angeles RWQCB for all phases of investigation. Designed and implemented aggressive remediation program within span of less than 1 year to facilitate property sale and to achieve site closure, combining strategic soil excavation and off-site disposal with soil vapor extraction for soil, and using in situ chemical oxidation via potassium permanganate injection for ground water. The agencies approved site closure in early 2006.

**Yosemite National Park, California, Yosemite Concession Services Corporation, 1994-2004.**

**Project Engineer/Task Manager/Program Manager**

Participated as key member of ERM's core team for management of UST program at Yosemite National Park for approximately 10 years. Managed site investigation, ground water monitoring, and remediation of 30 former UST sites, including several with complex, fractured bedrock hydrogeologic conditions. Performed historical information research and evaluated data. Developed site-specific screening levels for different land use scenarios. Developed and coordinated ground water sampling plans and schedules, performed site evaluations and data analysis, and developed and implemented remediation strategies. Helped client obtain closure from Central Valley RWQCB for 29 sites to date.

**Los Valles Land & Golf LLC, California, Palmer Investments, 2003-2007. Project Manager**

Managed remediation program to support redevelopment of former oil production well field in Santa Clarita into residential community and championship golf course. Implemented phased approach that would allow for near-surface soil cleanup to be completed on rapid basis to facilitate site-grading activities, while non-time critical tasks (deep soil remediation and ground water monitoring) were placed on flexible timing horizon. Shallow soil remediation included soil excavation and installation of vapor barriers. Deeper soil remediation employed soil vapor extraction and treatment. Project also included creative contracting methods, where ERM is incentivized to complete shallow remediation tasks quickly and under agreed upon cost cap. Achieving near-term objectives under cost cap would result in ERM and client sharing the savings.

**Los Angeles and Long Beach, California, UPRR, 2003-2004. Technical Reviewer**

Provided engineering support for several ongoing remediation projects at rail yards in Southern California. Assisted various project teams with development of remediation approach, optimization of existing and operating systems, and identification of closure criteria. Provided senior mentoring to staff and project engineers. Remediation program includes six SVE systems at various sites; contaminants are VOCs and petroleum hydrocarbons.

**San Bernardino, California, Burlington Northern Santa Fe Railway (BNSF), 2003. Project Engineer**

Provided engineering support for existing SVE system operation and ongoing optimization at San Bernardino Rail Yard for BNSF. Assisted program manager with defining cleanup goals and identifying the most efficient approach to achieve these goals. Developed long-term approach for addressing residual impacts to ground water. Contaminants are VOCs and petroleum hydrocarbons.

**Rancho Cordova Facility, California, GenCorp/Aerojet, 2001-2003. Project Engineer**

Participated in remedial design program for 400-acre parcel of National Priority List Superfund site in Sacramento County, CA, for GenCorp/Aerojet. Chemicals of concern at site included perchlorate, VOCs, and metals in soil and fractured bedrock ground water released as result of open burning of wastes from manufacture and testing of solid rocket motors and liquid rocket engines. Remedies considered included waste consolidation and containment, in situ technologies (including biological degradation and chemical oxidation), active treatment processes (i.e., extraction and treatment), and waste removal. Prepared remedial investigation, risk assessment, and feasibility study reports. Provided engineering services to senior management to support fiscal decision-making.

**Portfolio Evaluation, Confidential Client, 2001.**

**Project Engineer**

Assisted confidential manufacturing client with due diligence effort and evaluation of potential remediation cost and overall environmental liability for portfolio of over 300 sites in North and Latin America. Developed specific remedial alternatives and cost estimates for sites with known environmental conditions, including extent and nature of impacts and regulatory requirements. Developed cost estimation tool based on probability of

impacts, types of impacts likely associated with types of facilities, and potential remedies suitable for types of impact. Assisted client in evaluating different risk management strategies, based on potential remediation cost for entire portfolio.

**Curtis Park, California, Renova Partners, 2001.**

**Project Engineer**

Supported property developer with real estate purchase and environmental liability transfer of State Superfund site in California Central Valley. Performed due diligence site assessment and evaluated historical investigation and remediation activities. Developed alternative remedies to incorporate new redevelopment plans. Estimated total project costs and cash flow. Supported developer with presentations to insurance carriers and negotiations of terms of insurance policy.

**Sacramento Rail Yard, California, Union Pacific Rail Road (UPRR), 2000-2002.**

**Project Engineer**

Participated in due diligence effort for potential deed and environmental liability transfer of 240-acre State Superfund site in Sacramento, CA. Scope included review of all historical investigation results, status of completed, ongoing, and planned remedial actions; development of remedial actions for parcels within property, accounting for proposed redevelopment plan; and estimation of total environmental liability and projected cash flow for implementation of remedial actions.

**Task Manager**

Developed and managed change in remedy for parcel within Sacramento Rail Yard (State Superfund site). Evaluated remedial options and developed remedial action plan to address asbestos- and lead-impacted soil, while incorporating future redevelopment plans. Facilitated site redevelopment, including supporting client with regulatory and City of Sacramento negotiations. Selected and approved remedy included consolidation of impacted material and closure of waste in place using combination of geosynthetic and asphalt cap. Reviewed and evaluated historical soil and ground water investigation results. Identified data gaps and revised site conceptual model. Updated risk assessment, performed feasibility study, amended existing Remedial Action Plan, and designed new remedy (cap system).

**Various ANG Facilities, Western U.S., National Guard Bureau (NGB), 1998-2004. Project Manager**

Managed RI/FS and remediation task orders at airport sites in California, Nevada, Oregon, Utah, and Colorado, as part of 10-year, multi-million dollar “on-call” national contract with ANG. Specific projects included the following:

- **Kingsley Field, Oregon, NGB, 1998-2001.**  
Performed and managed RI/FS for IRP sites at Oregon ANG facility. Sites required remedial design and implementation of remedial action for cleanup of chlorinated solvents and hydrocarbons. Developed RBCA cleanup strategy. Remedy combines limited injection of oxygen-releasing compounds with monitored natural attenuation, supported by extensive risk assessment. Facilitated negotiations between client and regulatory agencies and facilitated communication with community groups.
- **Hayward Airport, California, NGB, 2000-2002.**  
Served as Project Manager for large-scale preliminary assessment/site investigation program for ANG Station in Hayward, CA. Developed project approach that included thorough records review, multi-phased site investigation, and regulatory coordination. Developed strategy for additional site activities, including justification for *No Further Action* for several areas, limited soil removal for one area, and remedial investigation/feasibility study for remaining areas. Assisted client during negotiations with San Francisco Bay RWQCB, DTSC, airport authority, and City of Hayward.
- **Toledo Express, Ohio, NGB, 2001-2003.** Managed and implemented monitored natural attenuation program for extensive benzene contamination at ANG facility in Ohio. Risk-based corrective action (RBCA) analysis has been completed and site closure approval received from the OEPA.
- **Buckley ANGB, Colorado, NGB, 1999-2001.**  
Managed RI/FS for IRP site at Colorado ANG/Air Force facility. Site required remedial design and implementation of remedial action for cleanup of chlorinated solvents and hydrocarbons in fractured bedrock. Developed and negotiated cleanup strategies with agencies. Developed chemical injection pilot test and developed cost-effective strategy. Facilitated technical working group, comprising regulators, city officials, Air Force representatives, and contractors.

- **Reno-Tahoe International Airport, Nevada, NGB, 2000-2002.** Managed RI/FS and remediation of IRP sites at ANG facility, Reno, NV. Site required remedial design and implementation of remedial action for cleanup of chlorinated solvents and hydrocarbons, including over 30,000 gallons of jet fuel in soil at one site. Developed and negotiated cleanup strategies with agencies. Facilitated negotiations between client and regulatory agencies. Designed, constructed, and operated treatment system to effectively remediate site.

**Modesto Facility, California, FMC, 1998-2000.**

**Project Manager**

Managed soil and ground water remediation project for major chemical processing facility in Modesto, CA. Reviewed and evaluated historical site data to develop conceptual site model. Proposed water quality standards for site considering likely future site use and local ground water uses. Negotiated with agencies to use existing ground water extraction system for ground water remediation. Developed and negotiated soil remediation and site redevelopment strategies, facilitated regulatory negotiations, performed technical evaluations of remedial options, and recommended most cost-effective remediation strategy.

**Arcady Disposal Site, California, PRP Group, 1998-2000. Project Engineer/Project Manager**

Represented 22 potentially responsible parties for soil and ground water site investigation and baseline risk assessment for metals-contaminated landfill near Stockton, CA. Developed site investigation plan and negotiated scope of activities with San Joaquin County Environmental Health Department, Central Valley RWQCB, and DTSC. Implemented field investigation and prepared summary reports. Supported client during determination of cost allocation among PRPs. Acted as liaison between client and regulatory agencies for litigation support case.

**Various California Naval Facilities, California, U.S. Navy, 1995-1999. Project Engineer/Task Manager**

Served as Task Manager for all phases of investigation and remedial planning for UST sites at active and inactive Naval facilities in California under 3-year, \$5-million “On-call” contract. Prepared site investigations, engineering evaluation/cost analysis, feasibility studies, risk assessments, corrective action plans, pilot studies, and remedial designs at over 30 sites on Naval Air Station Alameda, Naval Air Station Lemoore, Moffett

Field, DoD Housing Facility Novato, Fleet and Industrial Supply Center - Oakland, Naval Medical Center, Naval Communication Station - Stockton, and Naval Station Treasure Island. Primary contaminants included hydrocarbons and chlorinated solvents. Implemented multiple investigation methods, including direct-push soil sampling, soil gas surveys, HydroPunch ground water sampling, geophysical surveys, test pits and excavation, and monitoring well installation and sampling. Applied RBCA techniques, where applicable, to UST sites instead of traditional remedial alternatives, which saved approximately \$12 million in remediation system construction and O&M costs. Approach achieved cost-effective closure at 32 UST sites. Assisted Navy during all significant regulatory interactions.

# Simon Mendum



Mr. Simon Mendum is a Program Director located in ERM's Irvine, CA office specializing in merger and acquisition (M&A) advisory services. Simon has 16 years of experience offering a wide range of consulting services in transactional environmental due diligence, on both the buy side and sell side. He specializes in pre-bid and pre-close transactional consulting services, Phase I and transaction-specific environmental assessments, regulatory compliance reviews, portfolio liability protection services, portfolio exit preparedness, and corporate compliance programs. He has also provided environmental integration support to newly merged companies. Simon works primarily in the private equity, legal, industrial and strategic real estate investment sectors.

Mr. Mendum's experience is coupled by a broad range of clientel including agriculture, chemicals, communications, commercial services, electronics, food processing, manufacturing, mining, petrochemicals, utilities, and wholesale/retail trade.

Mr. Mendum provides business environmental risk management providing appropriate transactional perspective. Mr. Mendum understands how environmental liabilities tie into business decisions and has significant experience in providing cost estimates for known and potential environmental liabilities in a form that initially allows the deal to get done, and subsequently allows risks to be proactively managed over the term of interest and beyond. Mr. Mendum has a proven record in performing detailed and thorough environmental reviews on behalf of a variety of clients with very diverse interests, conducting work within strict confidentiality guidelines, delivering information within the confines of accelerated schedules, and managing multiple-country and multiple-office teams.

## Professional Affiliations & Registrations

- Member: Association for Corporate Growth
- Member: Turnaround Management Association
- Fellow of the Geological Society of London

## Fields of Competence

- Environmental due diligence
- Environmental compliance
- Site investigation
- Remedial solutions
- Environmental audits
- Strategic action plans

## Education

- MSc(Eng), Foundation Engineering, University of Birmingham, United Kingdom, 1994
- BSc(Hons), Natural Environmental Science/Earth Science, University of Sheffield, United Kingdom, 1992
- 40-Hour OSHA Hazardous Waste Operations and Emergency Response (HAZWOPER), 2002

## Languages

- English, native speaker

## Key Industry Sectors

- Manufacturing
- Petrochemicals
- Agriculture
- Electronics
- Food Processing
- Commercial

## **Key Projects**

### **Typical Confidential Deal (approximately US\$500MM), North America, Europe and Asia. Client Manager and Deal Coordinator**

Advised private equity client on acquisition of petrochemical manufacturing company with facilities in North America, Europe and Asia. Provided strategic advice and 25-year liability cost estimates and net present value forecasts to facilitate proactive management and divesting of environmental liabilities. Provided consulting services to third-party lenders and mezzanine debt providers to get them comfortable with issues, which allowed the deal to get done. Provided post-close consulting services and integration support to establish an “environmental management road map” and a strategic liability protection plan, allowing the client to prepare for exit from day one of the term of interest.

### **Numerous Buy-Side Confidential Deals, North, Central and South America, Asia, South Pacific and Europe. Client Manager and Deal Coordinator**

Advised private equity and legal clients on acquisition of various manufacturing and medium/heavy industrial companies. Pre-bid consulting services and advice were provided to better position clients in early stages of potential transactions prior to granting of exclusivity. Provided appropriate levels of environmental due diligence, depending upon portfolio characteristics, to determine potential and actual environmental liabilities pre-close and provided associated consulting services during negotiation. Provided strategic advice and environmental liability cost estimates to facilitate proactive management of environmental liabilities and associated financial reporting. Provided consulting services to third-party debt providers and other stake holders to get them comfortable with the issues, which allowed often difficult deals to get done. Provided additional data and consulting services to help facilitate environmental liability transfer and environmental insurance. Provided post-close consulting services and integration support to establish an “environmental management road map” and strategic liability protection plan, allowing clients to prepare for exit from day one of the term of interest.

### **Numerous Sell-Side Confidential Deals, North, Central and South America and Europe. Client Manager and Deal Coordinator**

Advised various clients on the sale of various manufacturing and medium/heavy industrial companies. Pre-sale consulting services and advice were provided to better position subject assets and companies ahead of any third-party diligence. This included environmental liability, compliance and management system reviews, and the provision of consulting services to correct any issues and proactively address and quantify potential liabilities. Provision of sell-side diligence materials for dataroom population and distribution to interested parties. Provided environmental consulting support during the sale processes.

### **Executive Role, Director, Assessments**

Responsible for the operation of an environmental due diligence department, including: operating budgets; revenues; budget and strategic planning; staff development and training; staff recruiting, retention and dismissal; quality; and timely completion of all global assessments projects.

### **Phase I and Phase II, Large Manufacturing Facility, UK. Project Manager**

Designed, scoped and implemented a significant investigation into a chlorinated solvent-impacted automotive component manufacturing facility on a major aquifer. Responsibilities included: developing investigation strategy (a three-year, phased approach); all SOPs for soil vapor surveys and soil and groundwater sampling; well installation design using conventional and nested wells; well construction risk management procedures for subordinate field crews; health and safety plan generation; auditing and field compliance with procedures; and liaison with the subject company directors and management on a monthly basis. Mr. Mendum was tasked with all site project management functions, operating up to 12 rigs and numerous other field crews at any one time.

## Appendix E Phase II Environmental Site Assessments



**LIMITED PHASE II  
ENVIRONMENTAL SITE ASSESSMENT  
SARGENT FLETCHER, INC  
9400 FLAIR DRIVE  
EL MONTE, CALIFORNIA**

**PREPARED FOR:**  
Mr. Cary Niu  
Mayflower Investment  
3033 West Mission Road  
Alhambra, California 91803

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

August 23, 2011  
Project No. 208380001

August 23, 2011  
Project No. 208380001

Mr. Cary Niu  
Mayflower Investment  
3033 West Mission Road  
Alhambra, California 91803

Subject: Limited Phase II Environmental Site Assessment  
Sargent Fletcher, Inc.  
9400 Flair Drive  
El Monte, California

Dear Mr. Niu:

Ninyo & Moore is pleased to submit this Limited Phase II Environmental Site Assessment (LESA) report describing the assessment activities conducted at the Sargent Fletcher facility at 9400 Flair Drive in El Monte, California. Work was performed in accordance with the professional services agreement between Mayflower Investment and Ninyo & Moore dated July 8, 2011, our proposal dated June 14, 2011, and Change Order No. 001 dated August 12, 2011.

Ninyo & Moore appreciates this opportunity to be of service to you. If you have any questions or comments regarding this report, please call the undersigned at your convenience.

Respectfully submitted,  
**NINYO & MOORE**



Peter Sims  
Senior Staff Environmental Geologist



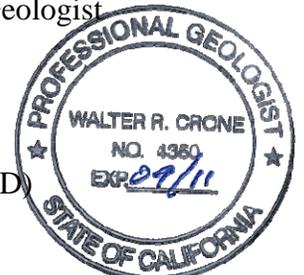
Prasad Thimmappa, PE  
Senior Project Engineer



Nancy J. Anglin, REA  
Principal Engineer/Operations Manager



Walter R. Crone, PG, REA  
Principal Environmental Geologist



PDS/PT/NA/WRC/sc/lr/mlc

Distribution: (1) Addressee (via e-mail)  
(2) Mr. Simon Hallsworth, Macro-Z-Technology (1 via e-mail and 1 CD)

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Appendix D – Geophysical Survey Report

Appendix E – Photographic Documentation

## **EXECUTIVE SUMMARY**

Mayflower Investment, LLC (Mayflower) authorized Ninyo & Moore to perform a Limited Phase II Environmental Site Assessment (LESA) at 9400 Flair Drive in El Monte, California (site). The LESA activities were performed in general accordance with Ninyo & Moore's proposal dated June 14, 2011, and the authorization of Mayflower dated August 5, 2011, and Change Order No. 001 dated August 12, 2011.

Environmental Resources Management (ERM) prepared a Phase I Environmental Site Assessment (ESA) of the subject site dated September 4, 2009. The Phase I ESA identified the following historical recognized environmental conditions (HRECs):

- Former 10,000-gallon underground storage tanks (USTs): Five 10,000-gallon USTs that were used to store benzene and gasoline were installed in 1971 and removed in 1988. The case was closed in 1993 by the Los Angeles County Department of Public Works (LADPW).
- Former 1,000-gallon UST: One 1,000-gallon UST that was installed in 1971 and was used to fuel on-site vehicles was removed in 1988. 'No Further Action' status was granted by LADPW on November 3, 1997.
- Asbestos containing materials (ACMs): Several potential ACMs were observed by ERM and ERM indicated that the materials appeared to be in good condition.

Based on our review of the ERM report and other documents provided by ERM, and a preliminary site reconnaissance, Ninyo & Moore provided a revised proposal for a LESA dated June 14, 2011. The proposal noted that "...no evidence of gross or site-wide impacts were identified, although localized impacts were encountered." The proposal included the collection of soil and soil vapor samples from eight specific locations at the site and from six locations intended to "...fill potential data gaps."

Ninyo & Moore conducted a detailed site reconnaissance on August 5, 2011, and Subsurface Surveys conducted a geophysical survey of the site from August 8 through August 11, 2011. One purpose of the detailed site reconnaissance and geophysical survey was to identify, based on visual observations and the geophysical survey, locations of potential concern at the site where the six "data gap" borings should be placed. The six locations were selected, as were the locations for the additional borings. A total of 19 locations were selected for collection of soil/soil vapor

samples. The site reconnaissance and geophysical survey noted the following areas of potential concern:

- The presence of two pits used as secondary containment for a former aboveground storage tank (AST) in the northeast corner of the manufacturing and assembly (MA) building.
- The presence of a pit used as secondary containment for a sheet metal press in Building 2.
- The presence of a backfilled pit south-southeast of test stands 1, 2, and 3.
- The presence of corroded concrete on the eastern side of the MA building.
- The presence of a UST that appeared to have been abandoned in place on the south side of the MA building.
- The presence of a former UST excavation northeast of the MA building.
- The presence of a backfilled pit north of test stand 4.

To address the HRECs identified in the Phase I ESA and site features identified in the site reconnaissance and geophysical survey, Ninyo & Moore conducted a LESA at the subject site. Field activities were conducted on August 5 and 8 through 11, 2011. Nineteen soil borings were advanced and sampled using direct-push methods and generally sampled at five-foot intervals. After soil samples were collected, soil gas probes were installed in 18 of the 19 direct-push soil borings at 5 and 15 feet below ground surface (bgs), and soil gas samples were collected.

The following findings were noted during this LESA:

- Petroleum hydrocarbon odor was noted in soil from borings B4 and B17 at depths of 1 to 3 feet bgs in each boring. Evidence of stains was not noted in the soil from the 19 direct-push borings.
- Groundwater was not encountered to a total depth of 40 feet bgs.
- Total petroleum hydrocarbons (TPH) in the C<sub>4</sub>-C<sub>12</sub>, C<sub>13</sub>-C<sub>22</sub>, C<sub>23</sub>-C<sub>32</sub>, and/or the greater than C<sub>32</sub> ranges were detected in samples B4-1 and B17-5.
- The following VOCs were detected in some of the soil samples collected from the site: benzene, toluene, ethylbenzene, xylenes, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 4-isopropyltoluene, naphthalene, sec-butylbenzene, and tetrachloroethene.
- Detectable concentrations of semi-volatile organic compounds (SVOCs) were not reported in the soil samples analyzed.

- Detectable concentrations of Title 22 Metals including: antimony, arsenic, barium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, vanadium and zinc, were reported in the soil samples analyzed.
- Detectable concentrations of VOCs including: dichlorodifluoromethane, vinyl chloride, trichlorofluoromethane, 1,1-dichloroethene (DCE), 1,1,2-trichlorotrifluoroethane, methylene chloride, trans-1,2-DCE, 1,1-dichloroethane, cis-1,2-DCE, chloroform, 1,1,1-trichloroethane, benzene, carbon tetrachloride, trichloroethene (TCE), toluene, tetrachloroethene (PCE), ethylbenzene, and m,p-xylene, and o-xylene were reported in some of the soil gas samples analyzed.

The following conclusions have been made based on the results of the sampling activities conducted at the site:

- The concentrations of TPH detected in soil samples (with the exception of shallow samples B4-1 and B17-5) do not exceed the California Regional Water Quality Control Board (RWQCB) Maximum Soil Screening Levels (SSLs) for protection of groundwater for soil 20 to 150 feet above groundwater for the protection of groundwater published in the Interim Site Assessment and Cleanup Guidebook by the California Regional Water Quality Control Board, Los Angeles and Ventura Counties, dated 1996 (RWQCB, 1996). The shallow TPH impacted soil is not considered a concern and can be handled appropriately by implementing a soil management plan (SMP) as identified in bullet No. 2 of the recommendations below.
- The concentrations of VOCs in soil samples do not exceed the applicable RWQCB Maximum SSLs (RWQCB, 1996) with the exception of benzene in samples B4-1, B9-5, B10-5, and B16-4. None of the VOC concentrations in soil samples exceeded their United States Environmental Protection Agency (EPA) Region 9 Regional Screening Levels (RSLs) for residential soils (EPA, 2010). The benzene concentrations can be effectively managed by implementing soil gas mitigation measures as identified in bullet No. 3 of the recommendations below.
- Concentrations of SVOCs were not detected in the analyzed soil samples.
- Detected Title 22 Metals concentrations were below respective State of California Total Threshold Limit Concentrations (TTLCs) and below 10 times the State of California Soluble Threshold Limit Concentrations (STLC) with the exception of chromium in sample B16-1. The detected concentration of chromium in soil sample B16-1 (750 milligrams per kilogram [mg/kg]) exceeds 10 times the STLC limit. Subsequent STLC analysis indicated a concentration of 6.5 milligrams per liter (mg/l) exceeding the 5 mg/l limit classifying the soil as hazardous waste. The soil sample is being analyzed for Toxicity Characteristics Leaching Procedure (TCLP) to determine disposal methods for the soil from this boring. Detected concentrations of Title 22 Metals were below their respective California Human Health Screening Levels (CHHSLs) for residential land use and commercial/industrial land use with the exception of the detected arsenic concentrations. However, detected concentrations of arsenic were below the background concentration published in the California Environmental Protection Agency, Department of Toxic Substances Control's (DTSC's) Determination of a

Southern California Regional Background Arsenic Concentration in Soil (DTSC, 2008) and are not considered a concern. Special procedures will be required for handling chromium impacted soil in the vicinity of boring B16. These procedures should be included in the SMP as identified in bullet No. 2 of the recommendations below.

- The concentrations of VOCs detected in soil gas exceeded their respective shallow (5.0 feet bgs) soil gas CHHSL for residential land use for benzene in samples SG7-5, SG9-5, SG10-5, SG11-5, SG11-5 DUP, SG12-5, SG13-5, SG13-5, SG15-5, SG17-5, and SG18-5; TCE in sample SG17-5; and PCE in samples SG1-5, SG2-5, SG3-5, SG9-5, SG13-5, SG17-5, and SG19-5. The concentrations of VOCs detected were below their respective shallow (5.0 feet bgs) soil gas CHHSL for commercial/industrial land use except for benzene in sample SG12-5 and PCE in samples SG2-5, SG3-5, and SG17-5.

Based on the findings of this LESA, Ninyo & Moore recommends the following:

- Mayflower should consult with their attorneys regarding reporting requirements for this LESA relative to Federal, State, and local regulatory agencies, and requirements under the Agreement and Covenant Not to Sue (CNTS). It is possible that Federal or State regulatory agencies may require additional assessment at the site.
- A SMP should be prepared and implemented to govern all planned earth moving and construction activities at the site. The soil management plan should address issues including, but not limited to, worker health and safety; interactions with regulatory agencies; segregation and disposal of contaminated soils; and procedures for proper permitting, removal and disposal of USTs, clarifiers or other subsurface structures of environmental concern that may be encountered during earth moving activities.
- Soil vapor mitigation measures should be implemented with regard to planned structures at the site. Soil vapor barriers or other mitigation systems should be included in the design of planned buildings. In addition, because of the soil vapor concentrations detected at the site, the SMP should address air permitting requirements and worker safety issues associated with soil vapor.

## **1. INTRODUCTION**

Ninyo & Moore was retained by Mayflower Investment, LLC (Mayflower) to provide environmental consulting services relating to historic site uses at the Sargent Fletcher, Inc. (SFI) facility at 9400 Flair Drive, El Monte California (site, Figures 1 and 2). Mayflower intends to purchase and redevelop the SFI facility. This report describes activities related to the Limited Phase II Environmental Site Assessment (LESA) conducted at the site on August 5 and from August 8 through August 11, 2011, in general accordance with our proposal dated June 14, 2011, and Change Order No. 001 dated August 12, 2011.

## **2. SITE BACKGROUND**

The following is a summary of site background information.

### **2.1. Site Description**

The site is at 9400 Flair Drive in El Monte southeast of the intersection of Flair Drive and Rio Hondo Avenue, South the San Bernardino Freeway (Figure 1). The site is approximately 14.66 acres in area and is occupied by two industrial buildings, parking areas, and the foundations of several demolished industrial buildings (Figure 2). The site is currently not in use.

### **2.2. Site History**

According to a Phase I Environmental Site Assessment (ESA), dated September 4, 2004, prepared by Environmental Resources Management (ERM; ERM, 2004), the site was in continual industrial use since approximately 1953 until approximately 2010 for the manufacture of external aircraft fuel drop tanks and aircraft assembly. Specific process included metal cutting, forming, welding and coating. The site was also used for the manufacture of napalm-filled drip tanks. These tanks were reportedly filled with napalm (gasoline and benzene) at the site. Benzene and gasoline were stored at the site in underground storage tanks (USTs).

According to the ERM report, the site, as a result of its inclusion in the South El Monte Operable Unit (SEMOU) of the San Gabriel Superfund site and historical operations, was the subject of numerous soil, soil gas, and groundwater investigations during the 1980s and

1990s with the last groundwater sampling event reportedly completed in 2000. Based on the results of those investigations, ERM reported no evidence of gross or site-wide impacts, although localized soil impacts were encountered.

SFI entered into an Agreement and Covenant Not to Sue (CNTS) with the United States Environmental Protection Agency (EPA) in 1995 (EPA, 1995). Under the CNTS, the EPA agreed not to take any other civil or administrative action against SFI for injunctive relief or reimbursement of response costs under Section 106 or 107 (a) of Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or Section 7003 of RCRA with the respect to pre-acquisition contamination. The terms of the CNTS would extend to subsequent purchases of the site as long SFI and purchaser comply the applicable terms of the CNTS. In accordance with the CNTS, SFI agreed to make certain settlement payments and agreed to complete additional assessment work. Based on documents provided by Mayflower, the investigation requirements of the CNTS were reportedly met by 1998 to the satisfaction of the EPA and the California Regional Water Quality Control Board (RWQCB) (Hogan and Hartson, 2009). The EPA has reportedly confirmed verbally that they have no current intention of requiring SFI to conduct further investigations at the site (Hogan and Hartson, 2009).

ERM noted the following historical recognized environmental conditions (HRECs):

- Former 10,000-gallon USTs: Five 10,000-gallon USTs that were used to store benzene and gasoline were installed in 1971 and removed in 1988. The case was closed in 1993 by the Los Angeles County Department of Public Works (LADPW).
- Former 1,000-gallon UST: One 1,000-gallon UST that was installed in 1971 and was used to fuel on-site vehicles was removed in 1988. 'No Further Action' status was granted by LADPW on November 3, 1997.
- Asbestos containing materials (ACMs): Several potential ACMs were observed by ERM and ERM indicated that the materials appeared to be in good condition.

### **2.3. Geology and Hydrogeology**

The site elevation is approximately 255 feet above mean sea level (msl), based on the United States Geological Survey (USGS) 7.5-minute series topographic map, El Monte Quadrangle, 1966, photorevised 1981 (USGS, 1966). The site slopes gently to the south.

According to the ERM report, the site is situated on sedimentary floor deposits of the San Gabriel Valley. Soils encountered at the site during the current investigation were comprised primarily of silty sand and sandy silt.

Groundwater was not encountered to a depth of 40 feet during the current investigation. A groundwater monitoring well in the parking lot on the west side of the site was found to be dry to a total depth of approximately 46 feet. Based on our review of reports from the State Water Resources Control Board (SWRCB) GeoTracker Website for nearby facilities, the depth to groundwater in the site vicinity has been encountered at approximately 45 to 55 feet below ground surface (bgs). Based on reports reviewed in GeoTracker, the groundwater gradient in the site vicinity is generally toward the southeast.

### **3. OBJECTIVE**

The objective of the LESA conducted by Ninyo & Moore was to evaluate soil, soil gas, and groundwater (if encountered) at the site, describe possible remedial alternatives and estimated associated remedial costs (provided under separate cover) based on our findings.

### **4. LIMITED ENVIRONMENTAL SITE ASSESSMENT ACTIVITIES**

LESA activities were conducted in accordance with the proposal dated June 14, 2011, and Change Order No. 001 dated August 12, 2011, and are described in the following sections. LESA activities included a geophysical survey, advancing 19 soil/soil gas borings, installing 36 soil gas monitoring points, and chemical testing of soil and soil gas samples. The approximate locations of the sample points are presented on Figure 3. Logs of the soil borings are presented in Appendix A. Standard Operating Procedures for Soil and Soil Gas Collection are described in Appendix B. Laboratory reports are presented in Appendix C. The geophysical survey report is presented in Appendix D. Photographic documentation is presented in Appendix E.

#### **4.1. Project Coordination, Background Review, Health & Safety Plan (HSP), and Underground Service Alert (USA) Notification**

A site-specific HSP, which addressed worker safety as well as the safety of the general public, was prepared. USA was notified prior to the subsurface investigations performed at the site. USA marked known locations of underground utilities. Ninyo & Moore reviewed relevant documents provided by the client. The documents are listed in the references section (Section 9) of this report. Information from this review is incorporated throughout this document. Visual inspection of the property and initial boring markout was conducted on August 8, 2011. The borings completed (B-1 through B-19) are shown on Figure 2. Actual boring locations were selected primarily based on our proposal dated June 14, 2011, field observations, the results of the geophysical survey, as well as review of background documents. The rationale for the selection of each boring location, as well as boring depth, sample depth, samples analyzed, and analytical methods used is described in Table 1.

#### **4.2. Geophysical Survey**

A geophysical survey was conducted from August 8 to 10, 2011, to evaluate the presence of possible underground utilities in the vicinity of the proposed boring locations by Subsurface Surveys of Carlsbad, California. Locations of suspected subsurface features identified during the geophysical survey were marked with spray paint. The geophysical survey included the use of electromagnetic induction, magnetometry, and ground-penetrating radar. The geophysical survey was also conducted to evaluate the possible presence of present or former USTs, backfilled excavations and the possible presence of other structures not anticipated based upon the site history and visual observations. A copy of the geophysical survey report is presented in Appendix D.

Several unanticipated features of potential concern were noted, as follows:

- A backfilled excavation approximately 120 feet south-southeast of boring B-4. Boring B-14 was placed at this location.
- A backfilled excavation west of the location of B-5. Boring B-15 was placed at this location. This excavation was likely associated with the past existence of the 10,000 gallon gasoline and benzene UST.

- A backfilled excavation approximately 90 feet north of B-7. Boring B-19 was placed at this location.
- A likely UST abandoned in place on the south side of the maintenance and assembly (MA) building. Boring B-17 was placed at this location.
- A possible UST abandoned in place in the northeast corner of the site. Boring B-18 was placed near this location.

A total of 19 boring locations were subsequently marked: eight initial locations from the proposal, six “data gap” borings based on visual and geophysical observations, and five additional borings also based on visual and geophysical observations.

### 4.3. Field Sampling

Field sampling was conducted from August 9 to 11, 2011. Table 1 provides the rationale for selection of each boring location, total depth, samples selected for analyses, and analytical methods. Soil samples were collected using a hydraulic push rig as described in Appendix B. Soil vapor samples were collected as described in Appendix B. Soil vapor samples were analyzed on site by a state-certified mobile hazardous materials testing laboratory operated by H&P Mobile Geochemistry, Inc. Soil samples collected at the site were placed in an ice chilled chest and transported with chain-of-custody documentation to Advanced Technology Laboratories, a state-certified hazardous materials testing laboratory.

**Table 1 – Sampling Program**

Boring Location and Rationale for Placement	Soil Borings (Number – Depth)*	Matrix and Sample Collection Depth	Analyzed Samples and Laboratory Analytical Method
Hazardous Materials Storage Area – Northeast corner of property B1	1-15 feet bgs	Soil – 1, 5, 10, 15 feet bgs	B1-5 and B1-15 for SVOCs by EPA 8270C, VOCs by EPA 8260B, and TPHs by EPA 8015B
		Soil Gas – 5 and 15 feet bgs	SG1-5 and SG1-15 for VOCs by EPA 8260B
Process Dip Tanks and Compressors – South wall of MA building B2	1-15 feet bgs	Soil – 5, 10, 15 feet bgs	B2-5 and B2-15 for SVOCs by EPA 8270C, VOCs by EPA 8260B, and Metals by EPA 6000/7000
		Soil Gas – 5 and 15 feet bgs	SG2-5 and SG2-15 for VOCs by EPA 8260B
Hazardous Waste Storage Area – CP Building B3	1-15 feet bgs	Soil – 5, 10, 15 feet bgs	B3-5 and B3-15 for SVOCs by EPA 8270C, VOCs by EPA 8260B, and TPHs by EPA 8015B
		Soil Gas – 5 and 15 feet bgs	SG3-5 and SG3-15 for VOCs by EPA 8260B

**Table 1 – Sampling Program**

<b>Boring Location and Rationale for Placement</b>	<b>Soil Borings (Number – Depth)*</b>	<b>Matrix and Sample Collection Depth</b>	<b>Analyzed Samples and Laboratory Analytical Method</b>
6x1,000-gallon West of Test Stands 1, 2 & 3 B4	1-15 feet bgs	Soil – 1, 5, 10, 15 feet bgs	B4-1 and B4-15 for VOCs by EPA 8260B and TPHs by EPA 8015B
		Soil Gas – 5 and 15 feet bgs	SG4-5 and SG4-15 for VOCs by EPA 8260B
5x10,000-gallon USTs B5	1-40 feet bgs	Soil – 1, 5, 10, 15, 20, 25, 30, 35, 40 feet bgs	B5-20 and B5-40 for VOCs by EPA 8260B
		Soil Gas – 5 and 15 feet bgs	SG5-5 and SG5-15 for VOCs by EPA 8260B
1x1,000-gallon UST B6	1-20 feet bgs	Soil – 5, 10, 15, 20 feet bgs	B6-5 and B6-20 for VOCs by EPA 8260B and TPHs by EPA 8015B
		Soil Gas – 5 and 15 feet bgs	SG6-5 and SG6-15 for VOCs by EPA 8260B
1x2,500 AST at Test Stand 4 B7	1-15 feet bgs	Soil – 5, 10, 15 feet bgs	B7-5 and B7-15 for VOCs by EPA 8260B and TPHs by EPA 8015B
		Soil Gas – 5 and 15 feet bgs	SG7-5 and SG7-15 for VOCs by EPA 8260B
Waste Water Treatment Plant (WWTP) B8	1-40 feet bgs	Soil – 1, 5, 10, 15, 20, 25, 30, 35, 40 feet bgs	B8-5 and B8-40 for SVOCs by EPA 8270C, VOCs by EPA 8260B, and Metals by EPA 6000/7000
		Soil Gas – 5 and 15 feet bgs	SG8-5 and SG8-15 for VOCs by EPA 8260B
Pits – Northeast corner of MA building B9	6-20 feet bgs	Soil – 5, 10, 15 feet bgs	B9-5 and B9-15 for VOCs by EPA 8260B and Metals by EPA 6000/7000
		Soil Gas – 5 and 15 feet bgs	SG9-5 and SG9-15 for VOCs by EPA 8260B
Additional boring to fill potential data gap B10	1-15 feet bgs	Soil – 1, 5, 10, 15 feet bgs	B10-5 and B10-5 for VOCs by EPA 8260B and Metals by EPA 6,000/7000
		Soil Gas – 5 and 15 feet bgs	SG10-5 and SG10-15 for VOCs by EPA 8260B
Additional boring to fill potential data gap B11	1-15 feet bgs	Soil – 1, 5, 10, 15 feet bgs	B11-5 and B11-15 for VOCs by EPA 8260B and Metals by EPA 6,000/7000
		Soil Gas – 5 and 15 feet bgs	SG11-5 and SG11-15 for VOCs by EPA 8260B
Additional boring to fill potential data gap B12	1-15 feet bgs	Soil – 1, 5, 10, 15 feet bgs	B12-5 and B12-15 for VOCs by EPA 8260B and Metals by EPA 6,000/7000
		Soil Gas – 5 and 15 feet bgs	SG12-5 and SG12-15 for VOCs by EPA 8260B
Pit – Building 2 B13	1-15 feet bgs	Soil – 1, 5, 10, 15 feet bgs	B13-5 and B13-15 for VOCs by EPA 8260B and Metals by EPA 6,000/7000
		Soil Gas – 5 and 15 feet bgs	SG13-5 and SG13-15 for VOCs by EPA 8260B
Backfilled excavation southeast of test stand 1 B14	1-15 feet bgs	Soil – 1, 5, 10, 15 feet bgs	B14-10 and B14-15 for VOCs by EPA 8260B and Metals by EPA 6,000/7000
		Soil Gas – 5 and 15 feet bgs	SG14-5 and SG14-15 for VOCs by EPA 8260B
5 x 10,000-gallon USTs B15	1-40 feet bgs	Soil – 1, 5, 10, 15, 20, 25, 30, 35, 40 feet bgs	B15-20 and B15-40 for VOCs by EPA 8260B and TPHs by EPA 8015B
		Soil Gas – 5 and 15 feet bgs	SG15-5 and SG15-15 for VOCs by EPA 8260B

**Table 1 – Sampling Program**

Boring Location and Rationale for Placement	Soil Borings (Number – Depth)*	Matrix and Sample Collection Depth	Analyzed Samples and Laboratory Analytical Method
Heavy concrete corrosion and green staining – MA building B16	1-4 feet bgs	Soil – 1 and 4 feet bgs	B16-1 and B16-4 for VOCs by EPA 8260B and Metals by EPA 6000/7000
Suspected abandoned UST B17	1-15 feet bgs	Soil – 1, 5, 10, 15 feet bgs	B17-5 and B17-15 for VOCs by EPA 8260B, TPHs by EPA 8015B, and Metals by EPA 6000,7000
		Soil Gas – 5 and 15 feet bgs	SG17-5 and SG17-15 for VOCs by EPA 8260B
Suspected abandoned UST B18	1-15 feet bgs	Soil – 1, 5, 10, 15 feet bgs	B18-5 and B18-15 for VOCs by EPA 8260B and TPHs by EPA 8015B
		Soil Gas – 5 and 15 feet bgs	SG18-5 and SG18-15 for VOCs by EPA 8260B
Backfilled excavation B19	1-15 feet bgs	Soil – 1, 5, 10, 15 feet bgs	B19-5 and B19-15 for VOCs by EPA 8260B, TPHs by EPA 8015B, and Metals by EPA 6000,7000
		Soil Gas – 5 and 15 feet bgs	SG19-5 and SG19-15 for VOCs by EPA 8260B
<b>Notes:</b> bgs – below ground surface AOC – area of concern SVOCs – semi-volatile organic compounds VOCs – volatile organic compounds TPHs – total petroleum hydrocarbons EPA – United States Environmental Protection Agency UST – underground storage tank AST – aboveground storage tank Borings will be advanced to the depth indicated, to groundwater, or until the drill encounters refusal.			

#### 4.4. Site Restoration

After removal of the soil vapor probes, soil borings were backfilled with hydrated bentonite and surfaced with concrete.

#### 4.5. Investigation-Derived Waste and Impacted Soil Removal

Decontamination water and waste cuttings generated during investigation activities conducted at the site were placed in three 55-gallon drums at the site. Waste disposal is pending at this time. Copies of the soil disposal documentation will be provided separately.

## **5. RESULTS**

The following sections describe the results for the investigation conducted at the site. The soil and soil vapor laboratory results are presented in Tables 2 through 4. The boring logs are presented in Appendix A. The laboratory reports are presented in Appendix C. The estimated lateral extent of VOCs in 5-foot bgs soil gas samples exceeding the California Human Health Screening Levels (CHHSLs) is presented as Figure 3.

### **5.1. Soil Matrix – Total Petroleum Hydrocarbons (TPH)**

TPH in the C<sub>4</sub>-C<sub>12</sub>, C<sub>13</sub>-C<sub>22</sub>, C<sub>23</sub>-C<sub>32</sub>, and/or the greater than C<sub>32</sub> ranges were detected in samples B4-1 and B17-5.

### **5.2. Soil Matrix – VOCs**

The following VOCs were detected in some of the soil samples collected from the site: benzene, toluene, ethylbenzene, xylenes, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 4-isopropyltoluene, naphthalene, sec-butylbenzene, and tetrachloroethene.

### **5.3. Soil Matrix – Semi-Volatile Organic Compounds (SVOCs)**

Concentrations of SVOCs were not detected in the analyzed soil samples.

### **5.4. Soil Matrix - Title 22 Metals**

Detectable concentrations of Title 22 Metals including: antimony, arsenic, barium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, vanadium and zinc, were reported in the soil samples analyzed.

### **5.5. Soil Gas Matrix - VOCs**

Detectable concentrations of VOCs including: dichlorodifluoromethane, vinyl chloride, trichlorofluoromethane, 1,1-dichloroethene (DCE), 1,1,2-trichlorotrifluoroethane, methylene chloride, trans-1,2-DCE, 1,1-dichloroethane, cis-1,2-DCE, chloroform, 1,1,1-trichloroethane, benzene, carbon tetrachloride, trichloroethene (TCE), toluene, tetrachloroethene (PCE), ethylbenzene, and m,p-xylene, and o-xylene were reported in some of the soil gas samples analyzed.

## **6. CONCLUSIONS**

The following conclusions are presented based on the results of the sampling activities conducted for the site.

### **6.1. Soil Matrix – TPH**

The concentrations of TPH detected in soil samples (with the exception of shallow soil samples B4-1 and B17-5) do not exceed the RWQCB Maximum Soil Screening Levels (SSLs) for protection of groundwater for soil 20 to 150 feet above groundwater published in the Interim Site Assessment and Cleanup Guidebook by the California Regional Water Quality Control Board, Los Angeles and Ventura Counties, dated 1996 (RWQCB, 1996). The shallow TPH impacted soil is not considered a concern and can be handled appropriately by implementing a soil management plan (SMP) as identified in bullet No. 2 of the recommendations in Section 7.

### **6.2. Soil Matrix – VOCs**

The concentrations of VOCs in soil samples do not exceed the applicable RWQCB Maximum SSLs (RWQCB, 1996) with the exception of benzene in samples B9-5, B10-5, and B16-4. None of the VOC detections in soil samples exceeded their EPA Region 9 Regional Screening Levels (RSLs) for residential soils (EPA, 2010). The benzene concentrations can be effectively managed by implementing soil vapor mitigation measures as identified in bullet No. 3 of the recommendations in Section 7.

### **6.3. Soil Matrix – SVOCs**

Concentrations of SVOCs were not detected in the analyzed soil samples.

### **6.4. Soil Matrix - Title 22 Metals**

Detected Title 22 Metals concentrations were below respective State of California Total Threshold Limit Concentrations (TTLCs) and below 10 times the State of California Soluble Threshold Limit Concentrations (STLC) with the exception of chromium in sample B16-1. The detected concentration of chromium in soil sample B16-1 (750 milligrams per kilogram [mg/kg]) exceeds 10 times the STLC limit. Subsequent STLC analysis indicated a concen-

tration of 6.5 milligrams per liter (mg/l) exceeding the 5 mg/l limit classifying the soil as hazardous waste. The soil sample is being analyzed for Toxicity Characteristics Leaching Procedure (TCLP) to determine disposal methods for the soil cuttings from this boring. Detected concentrations of Title 22 Metals were below their respective CHHSLs for residential land use and commercial/industrial land use with the exception of the detected arsenic concentrations. However, detected concentrations of arsenic were below the background concentration published in the California Environmental Protection Agency, Department of Toxic Substances Control's (DTSC's) Determination of a Southern California Regional Background Arsenic Concentration in Soil (DTSC, 2008). Special procedures will be required for handling chromium impacted soil in the vicinity of boring B16. These procedures should be included in the SMP as identified in bullet No. 2 of the recommendations in Section 7.

#### **6.5. Soil Gas Matrix - VOCs**

The concentrations of VOCs detected exceeded respective calculated shallow (5.0 feet bgs) soil gas CHHSLs for residential land use for benzene in samples SG7-5, SG9-5, SG10-5, SG11-5, SG11-5 DUP, SG12-5, SG13-5, SG13-5, SG15-5, SG17-5, and SG18-5; TCE in sample SG17-5; and PCE in samples SG1-5, SG2-5, SG3-5, SG9-5, SG13-5, SG17-5, and SG19-5. The concentrations of VOCs detected were below their respective shallow (5.0 feet bgs) soil gas CHHSL for commercial/industrial land use except for benzene in sample SG12-5 and PCE in samples SG2-5, SG3-5, and SG17-5. These VOC concentrations can be effectively managed by implementing soil vapor mitigation measures as identified in bullet No. 3 of the recommendation in Section 7 below.

### **7. RECOMMENDATIONS**

Based on the results of the investigations conducted to date we have the following recommendations:

- Mayflower should consult with its attorneys regarding reporting requirements for this LESA relative to Federal, State, and local regulatory agencies, and requirements under the CNTS. It is possible that Federal or State regulatory agencies may require additional assessment at the site.

- A soil management plan (SMP) should be prepared and implemented to govern all planned earth moving and construction activities at the site. The soil management plan should address issues including, but not limited to, worker health and safety; interactions with regulatory agencies, segregation and disposal of contaminated soils, and procedures for proper permitting, removal and disposal of USTs, clarifiers or other subsurface structures of environmental concern that may be encountered during earth moving activities.
- Soil vapor mitigation measures should be implemented with regard to planned structures at the site. Soil vapor barriers or other mitigation systems should be included in the design of planned buildings. In addition, because of the soil vapor concentrations detected at the site, the SMP should address air permitting requirements and worker safety issues associated with soil vapor.

## **8. LIMITATIONS**

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area. No other warranty, expressed or implied, is made regarding the professional opinions presented in this report. Variations in site conditions may exist and conditions not observed or described in this report may be encountered during subsequent activities. Please also note that this study did not include an evaluation of geotechnical conditions or potential geologic hazards.

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

Ninyo & Moore's opinions and recommendations regarding environmental conditions, as presented in this report, are based on limited subsurface assessment and chemical analysis. Further assessment of potential adverse environmental impacts from past on-site and/or nearby use of hazardous materials may be accomplished by a more comprehensive assessment. The samples collected and used for testing, and the observations made, are believed to be representative of the area(s) evaluated; however, conditions can vary significantly between sampling locations. Variations in soil and/or groundwater conditions will exist beyond the points explored in this evaluation.

The environmental interpretations and opinions contained in this report are based on the results of laboratory tests and analyses intended to detect the presence and concentration of specific chemical or physical constituents in samples collected from the subject site. The testing and analyses have been conducted by an independent laboratory which is accredited by the EPA or certified by the State of California to conduct such tests. Ninyo & Moore has no involvement in, or control over, such testing and analysis. Ninyo & Moore, therefore, disclaims responsibility for any inaccuracy in such laboratory results.

Our conclusions, recommendations, and opinions are based on an analysis of the observed site conditions. It should be understood that the conditions of a site can change with time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control.

This report is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.

## 9. REFERENCES

- California Environmental Protection Agency, see Department of Toxic Substances Control
- California Regional Water Quality Control Board and the Department of Toxic Substances Control, 2003, Joint Advisory on Active Soil Gas Investigations, January 28.
- California Regional Water Quality Control Board, 1996, Interim Site Assessment and Cleanup Guidebook, Los Angeles and Ventura Counties, Region 4, May.
- California Regional Water Quality Control Board, GeoTracker Website, 2011, <http://geotracker.swrcb.ca.gov/>.
- Department of Toxic Substances Control, 2005, California Human Health Screening Levels, January.
- Department of Toxic Substances Control, 2008, Determination of a Southern California Regional Background Arsenic Concentration in Soil, dated March.
- Department of Toxic Substances Control, 2010, Advisory on Active Soil Gas Investigation, March 3.
- Department of Toxic Substances Control, 2010, California Human Health Screening Levels for Ethylbenzene, September.
- DTSC, see Department of Toxic Substances Control.
- Environmental Resources Management, 2009, Phase I Environmental Site Assessment, Sargent Fletcher, Inc., 9400 East Flair Drive, El Monte, California 91731, United States of America, dated September 4.
- EPA, see United States Environmental Protection Agency.
- ERM, see Environmental Resources Management.
- Hogan and Hartson, 2009, Memorandum: Conversation with Jim Collins, USEPA Regarding SFI's El Monte Facility, dated September 17.
- ICF Kaiser, 1994a, Environmental Assessment of the Sargent-Fletcher Company Facility in El Monte, California, dated June 13.
- ICF Kaiser, 1994b, Limited Phase II Investigation of the Sargent-Fletcher Company Facility in El Monte, California, dated July 20.
- United States Environmental Protection Agency, 1996, Agreement and Covenant Not to Sue, Docket No. 95-08, in the matter of: Sargent Fletcher Inc., San Gabriel Superfund Sites, Areas 1-4, dated May 20.
- United States Environmental Protection Agency, 2010, Region 9 Regional Screening Levels, November.

United States Geological Survey, 1964, 7.5-Minute Series Los Angeles Quadrangle, dated 1964 (photorevised 1981).

USGS, see United States Geological Survey.

TABLE 2 – SOIL ANALYTICAL DATA - TPH, VOCs, AND SVOCs

Sample ID	Depth (feet bgs)	Date Collected	TPHcc by EPA Method 8015B (mg/kg)					VOCs by EPA Method 8260B (µg/kg)											SVOCs by EPA Method 8270C (µg/kg)
			TPH (C <sub>4</sub> -C <sub>12</sub> )	TPH (C <sub>13</sub> - C <sub>22</sub> )	TPH (C <sub>23</sub> - C <sub>32</sub> )	TPH (>C <sub>32</sub> )	Total TPH	Benzene	Toluene	Ethylbenzene	Xylenes	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Naphthalene	sec-Butylbenzene	Tetrachloroethene	Other VOCs	
B1-5	5	8/9/11	ND<1.0	ND<10	ND<10	ND<10	ND	8.5	7.4	ND<5.5	ND<11	ND<5.5	ND<5.5	ND<5.5	ND<5.5	ND<5.5	ND<5.5	ND	ND
B1-15	15	8/9/11	ND<1.0	ND<10	ND<10	ND<10	ND	ND<6.1	ND<6.1	ND<6.1	ND<12	ND<6.1	ND<6.1	ND<6.1	ND<6.1	ND<6.1	ND<6.1	ND	ND
B2-5	5	8/9/11	--	--	--	--	--	ND<4.4	ND<4.4	ND<4.4	ND<8.9	ND<4.4	ND<4.4	ND<4.4	ND<4.4	ND<4.4	ND<4.4	ND	ND
B2-15	15	8/9/11	--	--	--	--	--	ND<4.6	ND<4.4	ND<4.4	ND<9.3	ND<4.4	ND<4.4	ND<4.4	ND<4.4	ND<4.4	ND<4.4	ND	ND
B3-5	5	8/9/11	ND<1.0	ND<10	ND<10	ND<10	ND	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND
B3-15	15	8/9/11	ND<1.0	ND<10	ND<10	ND<10	ND	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	ND
B4-1	1	8/9/11	<b>640</b>	<b>2,900</b>	1,400	250	5,190	<b>ND&lt;250</b>	ND<250	ND<250	ND<510	1,800	550	590	16000	300	<b>ND&lt;250</b>	ND	--
B4-15	15	8/9/11	ND<1.0	ND<10	ND<10	ND<10	ND	ND<5.3	ND<5.3	ND<5.3	ND<11	ND<5.3	ND<5.3	ND<5.3	ND<5.3	ND<5.3	ND<5.3	ND	--
B5-20	20	8/9/11	--	--	--	--	--	ND<5.4	ND<5.4	ND<5.4	ND<11	ND<5.4	ND<5.4	ND<5.4	ND<5.4	ND<5.4	ND<5.4	ND	--
B5-40	40	8/9/11	--	--	--	--	--	ND<5.1	ND<5.1	ND<5.1	ND<11	ND<5.1	ND<5.1	ND<5.1	ND<5.1	ND<5.1	ND<5.1	ND	--
B6-5	5	8/9/11	ND<1.0	ND<10	ND<10	ND<10	ND	ND<4.6	ND<4.6	ND<4.6	ND<9.2	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND	--
B6-20	20	8/9/11	ND<1.0	ND<10	ND<10	ND<10	ND	ND<5.4	ND<5.4	ND<5.4	ND<11	ND<5.4	ND<5.4	ND<5.4	ND<5.4	ND<5.4	ND<5.4	ND	--
B7-5	5	8/9/11	ND<1.0	ND<10	ND<10	ND<10	ND	ND<5.1	ND<5.1	ND<5.1	ND<10	ND<5.1	ND<5.1	ND<5.1	ND<5.1	ND<5.1	ND<5.1	ND	--
B7-15	15	8/9/11	ND<1.0	ND<10	ND<10	ND<10	ND	ND<4.6	ND<4.6	ND<4.6	ND<9.2	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND	--
B8-5	5	8/10/11	--	--	--	--	--	ND<4.8	ND<4.8	ND<4.8	ND<9.7	ND<4.8	ND<4.8	ND<4.8	ND<4.8	ND<4.8	ND<4.8	ND	ND
B8-40	40	8/10/11	--	--	--	--	--	ND<5.2	ND<5.2	ND<5.2	ND<10	ND<5.2	ND<5.2	ND<5.2	ND<5.2	ND<5.2	ND<5.2	ND	ND
B9-5	5	8/10/11	--	--	--	--	--	<b>66</b>	77	15	23.9	ND<4.7	ND<4.7	ND<4.7	ND<4.7	ND<4.7	ND<4.7	ND	--
B9-15	15	8/10/11	--	--	--	--	--	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	12	ND	--
B10-5	5	8/10/11	--	--	--	--	--	<b>61</b>	52	8.7	9.1	ND<4.2	ND<4.2	ND<4.2	ND<4.2	ND<4.2	ND<4.2	ND	--
B10-15	15	8/10/11	--	--	--	--	--	ND<5.6	ND<5.6	ND<5.6	ND<11	ND<5.6	ND<5.6	ND<5.6	ND<5.6	ND<5.6	ND<5.6	ND	--
B11-5	5	8/10/11	--	--	--	--	--	ND<4.9	ND<4.9	ND<4.9	ND<9.9	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND	--
B11-15	15	8/10/11	--	--	--	--	--	ND<5.4	ND<5.4	ND<5.4	ND<11	ND<5.4	ND<5.4	ND<5.4	ND<5.4	ND<5.4	ND<5.4	ND	--
B12-5	5	8/10/11	--	--	--	--	--	5.0	ND<4.7	ND<4.7	ND<9.4	ND<4.7	ND<4.7	ND<4.7	ND<4.7	ND<4.7	ND<4.7	ND	--
B12-15	15	8/10/11	--	--	--	--	--	ND<5.2	ND<5.2	ND<5.2	ND<10	ND<5.2	ND<5.2	ND<5.2	ND<5.2	ND<5.2	ND<5.2	ND	--
B13-5	5	8/10/11	--	--	--	--	--	ND<4.6	ND<4.6	ND<4.6	ND<9.2	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND	--
B13-15	15	8/10/11	--	--	--	--	--	ND<4.8	ND<4.8	ND<4.8	ND<9.5	ND<4.8	ND<4.8	ND<4.8	ND<4.8	ND<4.8	ND<4.8	ND	--
B14-10	10	8/10/11	--	--	--	--	--	ND<4.3	ND<4.3	ND<4.3	ND<8.5	ND<4.3	ND<4.3	ND<4.3	ND<4.3	ND<4.3	ND<4.3	ND	--
B14-15	15	8/10/11	--	--	--	--	--	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	--
B15-20	20	8/10/11	ND<1.0	ND<10	ND<10	ND<10	ND	ND<5.0	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND	--
B15-40	40	8/10/11	ND<1.0	ND<10	ND<10	ND<10	ND	ND<4.1	ND<4.1	ND<4.1	ND<8.2	ND<4.1	ND<4.1	ND<4.1	ND<4.1	ND<4.1	ND<4.1	ND	--
B16-1	1	8/10/11	--	--	--	--	--	ND<5.7	ND<5.7	ND<5.7	ND<11	ND<5.7	ND<5.7	ND<5.7	ND<5.7	ND<5.7	ND<5.7	ND	--
B16-4	4	8/10/11	--	--	--	--	--	<b>68</b>	85	17	29.4	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND	--
B17-5	5	8/10/11	ND<1.0	<b>5,600</b>	<b>12,000</b>	7,700	25,300	ND<5.7	ND<5.7	ND<5.7	ND<11	ND<5.7	ND<5.7	ND<5.7	ND<5.7	ND<5.7	ND<5.7	ND	--
B17-15	15	8/10/11	ND<1.0	ND<10	ND<10	ND<10	ND	ND<4.6	ND<4.6	ND<4.6	ND<9.2	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND	--
B18-5	5	8/10/11	ND<1.0	ND<10	ND<10	ND<10	ND	ND<4.3	ND<4.3	ND<4.3	ND<8.7	ND<4.3	ND<4.3	ND<4.3	ND<4.3	ND<4.3	ND<4.3	ND	--
B18-15	15	8/10/11	ND<1.0	ND<10	ND<10	ND<10	ND	ND<5.2	ND<5.2	ND<5.2	ND<10	ND<5.2	ND<5.2	ND<5.2	ND<5.2	ND<5.2	ND<5.2	ND	--
B19-5	5	8/10/11	ND<1.0	ND<10	ND<10	ND<10	ND	ND<4.5	ND<4.5	ND<4.5	ND<9.0	ND<4.5	ND<4.5	ND<4.5	ND<4.5	ND<4.5	ND<4.5	ND	--
B19-15	15	8/10/11	ND<1.0	ND<10	ND<10	ND<10	ND	ND<4.7	ND<4.7	ND<4.7	ND<9.5	ND<4.7	ND<4.7	ND<4.7	ND<4.7	ND<4.7	ND<4.7	ND	--

**TABLE 2 – SOIL ANALYTICAL DATA - TPH, VOCs, AND SVOCs**

Sample ID	Depth (feet bgs)	Date Collected	TPHcc by EPA Method 8015B (mg/kg)					VOCs by EPA Method 8260B (µg/kg)										SVOCs by EPA Method 8270C (µg/kg)	
			TPH (C <sub>4</sub> -C <sub>12</sub> )	TPH (C <sub>13</sub> - C <sub>22</sub> )	TPH (C <sub>23</sub> - C <sub>32</sub> )	TPH (>C <sub>32</sub> )	Total TPH	Benzene	Toluene	Ethylbenzene	Xylenes	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	4-Isopropyltoluene	Naphthalene	sec-Butylbenzene	Tetrachloroethene		Other VOCs
Regulatory Screening Levels																			
CHHSLs for Residential Land Use			NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NA	NA	
CHHSLs for Commercial/Industrial Land Use			NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NA	NA	
SSLs			500	1,000	10,000	NL	NL	38.5	2,225	8,500	22,650	NL	NL	NL	NL	81	NA	NA	
RSLs for Residential Soil			NL	NL	NL	NL	NL	1,100	5,000,000	5,400	3,400,000	62,000	780,000	NL	NL	NL	550	NA	NA
RSLs for Industrial Soil			NL	NL	NL	NL	NL	5,400	45,000,000	27,000	17,000,000	260,000	10,000,000	NL	NL	NL	2,600	NA	NA
<b>Notes:</b> TPH – total petroleum hydrocarbons VOCs – volatile organic compounds SVOCs – semi volatile organic compounds ID – identification bgs – below ground surface TPHcc – TPH with carbon chain speciation EPA – United States Environmental Protection Agency mg/kg – milligrams per kilogram µg/kg – micrograms per kilogram ND – not detected above the Practical Quantitation Limit -- – not analyzed CHHSLs – California Human Health Screening Levels for soil (Cal/EPA, 2005) NL – not listed NA – not applicable - analytes were not detected above reporting limits, or if detected, the analytes do not have regulatory screening levels. SSLs – Regional Water Quality Control Board (RWQCB) Maximum Soil Screening Level for soil more than 20 feet and less than 150 feet above groundwater (RWQCB, 1996) RSLs – EPA Regional Screening Levels for soils (November, 2011) Cal/EPA – California Environmental Protection Agency bold concentrations exceed one or more regulatory screening levels																			

**TABLE 3 – SOIL ANALYTICAL DATA - TITLE 22 METALS**

Sample ID	Depth (feet bgs)	Date Collected	Title 22 Metals by EPA Method No. 6010B/7471A (mg/kg)																
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
B2-5	5	8/9/11	ND<2.0	ND<1.0	72	ND<1.0	ND<1.0	17	10	23	4.7	ND<0.10	ND<1.0	14	ND<1.0	ND<1.0	ND<1.0	40	54
B2-15	15	8/9/11	ND<2.0	ND<1.0	74	ND<1.0	ND<1.0	14	14	41	5.1	ND<0.10	2.0	14	ND<1.0	ND<1.0	ND<1.0	37	49
B8-5	5	8/10/11	ND<2.0	1.7	190	ND<1.0	ND<1.0	23	13	38	7.5	ND<0.10	1.0	17	ND<1.0	ND<1.0	ND<1.0	43	52
B8-40	40	8/10/11	ND<2.0	ND<1.0	63	ND<1.0	ND<1.0	16	10	27	4.3	0.34	ND<1.0	11	ND<1.0	ND<1.0	ND<1.0	40	51
B9-5	5	8/10/11	ND<2.0	3.0	100	ND<1.0	ND<1.0	24	17	52	8.7	0.19	ND<1.0	18	ND<1.0	ND<1.0	ND<1.0	49	66
B9-15	15	8/10/11	ND<2.0	ND<1.0	88	ND<1.0	ND<1.0	15	10	21	4.7	0.71	ND<1.0	12	ND<1.0	ND<1.0	ND<1.0	34	47
B10-5	5	8/10/11	ND<2.0	ND<1.0	120	ND<1.0	ND<1.0	22	15	48	8.3	ND<0.10	ND<1.0	17	ND<1.0	ND<1.0	ND<1.0	45	63
B10-15	15	8/10/11	ND<2.0	ND<1.0	52	ND<1.0	ND<1.0	8.6	7.4	12	2.4	ND<0.10	ND<1.0	7.9	ND<1.0	ND<1.0	ND<1.0	22	30
B11-5	5	8/10/11	ND<2.0	ND<1.0	220	ND<1.0	ND<1.0	25	16	69	10	ND<0.10	ND<1.0	17	ND<1.0	ND<1.0	ND<1.0	65	71
B11-15	15	8/10/11	ND<2.0	ND<1.0	33	ND<1.0	ND<1.0	11	5.2	13	3.1	ND<0.10	ND<1.0	5.6	ND<1.0	ND<1.0	ND<1.0	28	25
B12-5	5	8/10/11	ND<2.0	ND<1.0	33	ND<1.0	ND<1.0	9.2	6.8	14	2.8	ND<0.10	ND<1.0	6.9	ND<1.0	ND<1.0	ND<1.0	23	29
B12-15	15	8/10/11	ND<2.0	ND<1.0	290	ND<1.0	ND<1.0	26	22	51	9.3	ND<0.10	3.5	24	ND<1.0	ND<1.0	ND<1.0	56	64
B13-5	5	8/10/11	ND<2.0	ND<1.0	88	ND<1.0	ND<1.0	18	12	28	5.2	ND<0.10	ND<1.0	16	ND<1.0	ND<1.0	ND<1.0	40	55
B13-15	15	8/10/11	ND<2.0	ND<1.0	80	ND<1.0	ND<1.0	15	9.8	23	4.9	ND<0.10	ND<1.0	12	ND<1.0	ND<1.0	ND<1.0	31	40
B14-10	10	8/10/11	ND<2.0	2.6	130	ND<1.0	ND<1.0	21	12	26	6.1	ND<0.10	ND<1.0	17	ND<1.0	ND<1.0	ND<1.0	53	51
B14-15	15	8/10/11	ND<2.0	3.3	44	ND<1.0	ND<1.0	6.8	3.9	8.6	2.4	0.10	ND<1.0	5.8	ND<1.0	ND<1.0	ND<1.0	12	20
B16-1	1	8/10/11	13	ND<1.0	28	ND<1.0	ND<1.0	750	7.8	18	5.3	ND<0.10	ND<1.0	9.7	ND<1.0	ND<1.0	ND<1.0	32	58
B16-4	4	8/10/11	ND<2.0	ND<1.0	150	ND<1.0	ND<1.0	22	13	39	7.3	ND<0.10	ND<1.0	16	ND<1.0	ND<1.0	ND<1.0	45	55
B19-5	5	8/10/11	ND<2.0	ND<1.0	120	ND<1.0	ND<1.0	20	14	25	5.0	ND<0.10	ND<1.0	17	ND<1.0	ND<1.0	ND<1.0	51	60
B19-15	15	8/10/11	ND<2.0	ND<1.0	81	ND<1.0	ND<1.0	11	8.2	17	3.4	ND<0.10	ND<1.0	9.1	ND<1.0	ND<1.0	ND<1.0	29	31
Regulatory Screening Criteria																			
CHHSLs for Residential Land Use			30	0.07	5,200	150	1.7	100,000	660	3,000	150	18	380	16,000	380	380	5.0	530	23,000
CHHSLs for Commercial/Industrial Land Use			380	0.24	63,000	1,700	7.5	100,000	3,200	38,000	3,500	180	4,800	160,000	4,800	4,800	63	6,700	100,000
DTSC Background Concentration			NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**TABLE 3 – SOIL ANALYTICAL DATA - TITLE 22 METALS**

Sample ID	Depth (feet bgs)	Date Collected	Title 22 Metals by EPA Method No. 6010B/7471A (mg/kg)																
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Hazardous Waste Criteria																			
TTLC (mg/kg)			500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
STLC (mg/l)			15	5.0	100	0.75	1.0	5.0	80	25	5.0	0.2	350	20	1.0	5.0	7.0	24	250
<b>Notes:</b>																			
ID – Identification																			
bgs – below ground surface																			
EPA – United States Environmental Protection Agency																			
mg/kg – milligrams per kilogram																			
Bold concentrations exceed one or more regulatory screening levels																			
ND – not detected																			
CHHSLs – California Human Health Screening levels for soil (Cal/EPA, 2005)																			
DTSC Background Concentration – DTSC's Determination of a Southern California Regional Background Arsenic Concentration in Soil (March, 2008)																			
DTSC – State of California Department of Toxic Substances Control																			
NA – not applicable																			
TTLC – State of California total threshold limit concentration																			
STLC – State of California soluble threshold limit concentration																			
mg/l – milligrams per liter																			

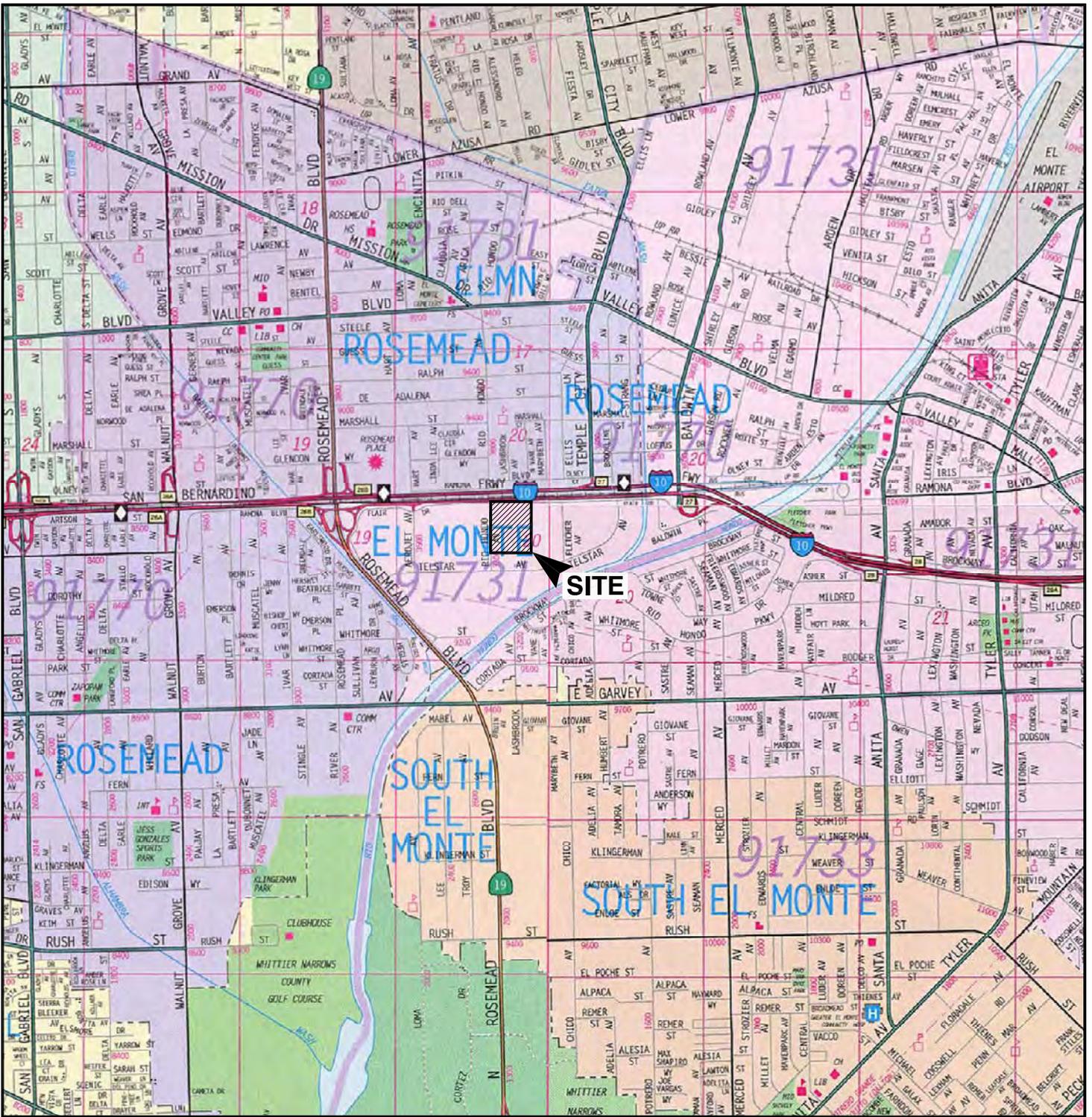
TABLE 4 - SOIL GAS ANALYTICAL DATA - VOCs

Sample ID	Depth (feet bgs)	Date Collected	EPA Method 8260B (µg/m <sup>3</sup> )																			
			Dichlorodifluoromethane	Vinyl chloride	Trichlorofluoromethane	1,1-Dichloroethene	1,1,2-Trichlorotrifluoroethane	Methylene chloride	trans-1,2-Dichloroethene	1,1-Dichloroethane	cis-1,2-Dichloroethene	Chloroform	1,1,1-Trichloroethane	Benzene	Carbon tetrachloride	Trichloroethene	Toluene	Tetrachloroethene	Ethylbenzene	m,p-Xylene	o-Xylene	Other VOCs
SG1-5	5	8/10/11	ND<25	ND<13	ND<28	ND<20	ND<39	ND<18	ND<40	ND<41	ND<40	ND<25	69	17	ND<13	ND<27	110	220	ND<22	49	ND<22	ND
SG1-15	15	8/10/11	120	ND<13	ND<28	ND<20	ND<39	ND<18	ND<40	ND<41	ND<40	ND<25	ND<28	ND<16	ND<13	ND<27	27	420	ND<22	ND<44	ND<22	ND
SG2-5	5	8/9/11	ND<25	ND<13	ND<28	ND<20	ND<39	ND<18	ND<40	ND<41	ND<40	ND<25	ND<28	32	ND<13	77	240	2200	44	180	52	ND
SG2-15, 1PV	15	8/9/11	ND<25	91	ND<28	ND<20	ND<39	ND<18	ND<40	ND<41	420	110	ND<28	44	ND<13	320	100	1500	ND<22	54	22	ND
SG2-15, 3PV	15	8/9/11	ND<25	230	ND<28	47	46	ND<18	ND<40	ND<41	570	130	ND<28	38	ND<13	500	140	1900	ND<22	84	27	ND
SG2-15, 7PV	15	8/9/11	ND<25	170	ND<28	50	76	ND<18	49	ND<41	670	80	ND<28	47	ND<13	550	170	1500	23	97	29	ND
SG3-5	5	8/9/11	33	ND<13	430	ND<20	ND<39	ND<18	ND<40	ND<41	ND<40	ND<25	150	17	ND<13	37	110	5600	ND<22	57	ND<22	ND
SG3-15	15	8/9/11	53	ND<13	33	ND<20	ND<39	ND<18	ND<40	ND<41	ND<40	ND<25	ND<28	16	ND<13	ND<27	130	450	ND<22	54	ND<22	ND
SG3-15 Dup	15	8/9/11	ND<25	ND<13	43	ND<20	54	ND<18	ND<40	ND<41	ND<40	ND<25	33	25	ND<13	ND<27	110	380	ND<22	51	ND<22	ND
SG4-5	5	8/9/11	66	ND<13	ND<28	ND<20	ND<39	ND<18	ND<40	ND<41	ND<40	ND<25	ND<28	33	ND<13	ND<27	330	ND<34	51	48	160	ND
SG4-15	15	8/9/11	ND<25	ND<13	31	ND<20	210	ND<18	ND<40	250	ND<40	ND<25	ND<28	33	ND<13	ND<27	280	ND<34	72	210	140	ND
SG5-5	5	8/9/11	ND<25	ND<13	ND<28	ND<20	ND<39	ND<18	ND<40	ND<41	ND<40	ND<25	ND<28	61	ND<13	ND<27	340	ND<34	56	230	66	ND
SG5-15	15	8/9/11	ND<25	ND<13	ND<28	ND<20	ND<39	ND<18	ND<40	ND<41	ND<40	ND<25	ND<28	39	ND<13	ND<27	280	ND<34	36	110	37	ND
SG6-5	5	8/9/11	60	ND<13	ND<28	ND<20	ND<39	ND<18	ND<40	ND<41	ND<40	ND<25	ND<28	27	ND<13	ND<27	130	ND<34	ND<22	76	27	ND
SG6-15	15	8/9/11	ND<25	ND<13	ND<28	ND<20	ND<39	ND<18	ND<40	ND<41	ND<40	ND<25	ND<28	30	ND<13	ND<27	ND<19	ND<34	ND<22	ND<44	ND<22	ND
SG7-5	5	8/9/11	ND<25	ND<13	ND<28	ND<20	57	21	ND<40	ND<41	ND<40	ND<25	ND<28	40	ND<13	ND<27	220	ND<34	33	140	52	ND
SG7-15	15	8/9/11	ND<25	ND<13	ND<28	ND<20	ND<39	ND<18	ND<40	ND<41	ND<40	ND<25	ND<28	ND<16	14	ND<27	ND<19	ND<34	ND<22	ND<44	ND<22	ND
SG8-5	5	8/10/11	ND<25	ND<13	32	ND<20	ND<39	ND<18	ND<40	ND<41	ND<40	ND<25	ND<28	28	ND<13	ND<27	180	140	ND<22	66	ND<22	ND
SG8-15	15	8/10/11	ND<25	ND<13	ND<28	ND<20	ND<39	ND<18	ND<40	ND<41	ND<40	ND<25	ND<28	35	ND<13	ND<27	130	77	ND<22	53	ND<22	ND
SG8-15 Dup	15	8/10/11	ND<25	ND<13	ND<28	ND<20	ND<39	ND<18	ND<40	ND<41	ND<40	ND<25	ND<28	32	ND<13	ND<27	130	100	ND<22	ND<44	ND<22	ND
SG9-5	5	8/10/11	ND<25	ND<13	ND<28	ND<20	ND<39	ND<18	ND<40	ND<41	ND<40	ND<25	ND<28	110	ND<13	ND<27	690	240	80	250	88	ND
SG9-15	15	8/10/11	ND<25	ND<13	ND<28	ND<20	ND<39	ND<18	ND<40	ND<41	ND<40	ND<25	ND<28	ND<16	ND<13	ND<27	63	910	ND<22	ND<44	ND<22	ND
SG10-5	5	8/10/11	ND<25	ND<13	ND<28	ND<20	ND<39	ND<18	ND<40	ND<41	ND<40	ND<25	ND<28	38	ND<13	75	130	58	ND<22	46	24	ND
SG10-15	15	8/10/11	ND<25	ND<13	ND<28	ND<20	ND<39	ND<18	ND<40	ND<41	120	ND<25	ND<28	ND<16	ND<13	1000	38	160	ND<22	ND<44	ND<22	ND
SG11-5	5	8/11/11	ND<25	ND<13	ND<28	ND<20	110	ND<18	ND<40	ND<41	ND<40	ND<25	ND<28	51	ND<13	ND<27	530	87	79	270	88	ND
SG11-5 Dup	5	8/11/11	ND<25	ND<13	ND<28	ND<20	110	ND<18	ND<40	ND<41	ND<40	ND<25	ND<28	73	ND<13	ND<27	760	84	100	370	110	ND
SG11-15	15	8/11/11	ND<25	ND<13	ND<28	ND<20	180	ND<18	ND<40	ND<41	ND<40	ND<25	ND<28	ND<16	ND<13	ND<27	71	61	ND<22	78	ND<22	ND
SG12-5	5	8/11/11	55	ND<13	ND<28	ND<20	ND<39	230	ND<40	ND<41	ND<40	ND<25	ND<28	190	ND<13	ND<27	2300	ND<34	210	750	180	ND
SG12-15	15	8/11/11	160	ND<13	ND<28	ND<20	540	ND<18	ND<40	ND<41	ND<40	ND<25	ND<28	69	ND<13	ND<27	500	ND<34	87	330	99	ND
SG13-5	5	8/10/11	ND<25	ND<13	ND<28	ND<20	110	ND<18	ND<40	ND<41	ND<40	ND<25	ND<28	50	ND<13	390	270	200	27	74	30	ND
SG13-15	15	8/10/11	ND<25	ND<13	ND<28	ND<20	120	ND<18	ND<40	ND<41	ND<40	ND<25	ND<28	44	ND<13	2900	140	290	ND<22	46	ND<22	ND
SG14-5	5	8/10/11	ND<25	ND<13	ND<28	ND<20	43	ND<18	ND<40	ND<41	ND<40	ND<25	ND<28	53	ND<13	ND<27	280	150	27	82	28	ND
SG14-15	15	8/10/11	ND<25	ND<13	ND<28	ND<20	ND<39	ND<18	ND<40	ND<41	ND<40	ND<25	ND<28	54	ND<13	ND<27	250	ND<34	24	ND<44	26	ND
SG15-5	5	8/11/11	ND<25	ND<13	ND<28	ND<20	ND<39	ND<18	ND<40	ND<41	ND<40	ND<25	ND<28	100	ND<13	ND<27	580	ND<34	92	310	96	ND
SG15-15	15	8/11/11	ND<25	ND<13	ND<28	ND<20	ND<39	ND<18	ND<40	ND<41	ND<40	ND<25	ND<28	120	ND<13	ND<27	320	ND<34	38	130	52	ND
SG17-5	5	8/11/11	ND<25	ND<13	200	ND<20	ND<39	ND<18	ND<40	ND<41	190	ND<25	ND<28	110	ND<13	950	200	1700	38	140	48	ND
SG17-15	15	8/11/11	ND<25	ND<13	290	ND<20	210	ND<18	ND<40	ND<41	310	ND<25	ND<28	ND<16	ND<13	550	37	210	ND<22	ND<44	ND<22	ND
SG18-5	5	8/11/11	ND<25	ND<13	ND<28	ND<20	ND<39	ND<18	ND<40	ND<41	ND<40	29	ND<28	78	ND<13	ND<27	460	ND<34	40	120	41	ND
SG18-15	15	8/11/11	ND<25	ND<13	ND<28	ND<20	ND<39	ND<18	ND<40	ND<41	ND<40	ND<25	ND<28	20	ND<13	ND<27	89	450	ND<22	ND<44	ND<22	ND
SG19-5	5	8/11/11	ND<25	ND<13	ND<28	ND<20	180	ND<18	ND<40	ND<41	ND<40	ND<25	ND<28	ND<16	ND<13	ND<27	150	310	ND<22	71	ND<22	ND
SG19-15	15	8/11/11	ND<25	ND<13	ND<28	ND<20	ND<39	ND<18	ND<40	ND<41	ND<40	ND<25	ND<28	41	ND<13	ND<27	130	46	24	53	ND<22	ND
California Human Health Screening Levels (CHHSLs)			NL	13.30	NL	NL	NL	NL	31,900	NL	15,900	NL	991,000	36.20	25.10	528	135,000	180	NL	317,000	315,000	NL
Residential Land Use			NL	13.30	NL	NL	NL	NL	31,900	NL	15,900	NL	991,000	36.20	25.10	528	135,000	180	NL	317,000	315,000	NL
Commercial/Industrial Land Use			NL	44.80	NL	NL	NL	NL	88,700	NL	44,400	NL	2,790,000	122	84.60	1,770	378,000	603	NL	887,000	879,000	NL

**TABLE 4 - SOIL GAS ANALYTICAL DATA - VOCs**

Sample ID	Depth (feet bgs)	Date Collected	EPA Method 8260B (µg/m <sup>3</sup> )																		
			Dichlorodifluoromethane	Vinyl chloride	Trichlorofluoromethane	1,1-Dichloroethene	1,1,2-Trichlorotrifluoroethane	Methylene chloride	trans-1,2-Dichloroethene	1,1-Dichloroethane	cis-1,2-Dichloroethene	Chloroform	1,1,1-Trichloroethane	Benzene	Carbon tetrachloride	Trichloroethene	Toluene	Tetrachloroethene	Ethylbenzene	m,p-Xylene	o-Xylene
<b>Notes:</b> ID – identification bgs – below ground surface EPA – United States Environmental Protection Agency µg/m <sup>3</sup> – micrograms per cubic meter VOCs – volatile organic compounds SG – soil gas ND – not detected above the Practical Quantitation Limit Bold concentrations exceed one or more regulatory screening levels Bold concentrations exceed the CHHSLs for Residential Land Use at 5 feet bgs CHHSLs – California Human Health Screening Levels for Shallow Soil Gas (1/2005) NL – Not Listed																					

208380\_A1.DWG.....G.K.



REFERENCE: 52ND EDITION, THOMAS GUIDE FOR LOS ANGELES/ORANGE COUNTIES, STREET GUIDE AND DIRECTORY

SCALE IN FEET



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.  
Map © Rand McNally, R.L.07-S-129

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**SITE LOCATION**

FIGURE

PROJECT NO.  
208380001

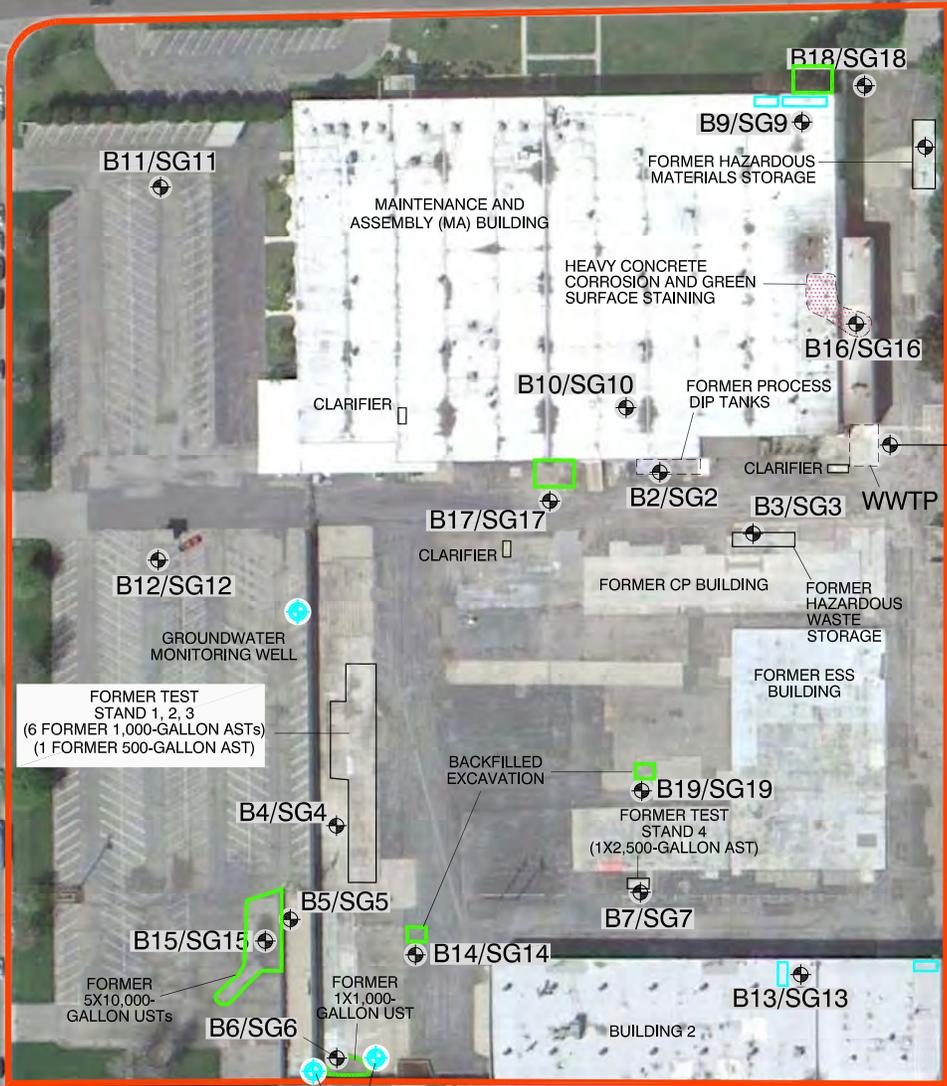
DATE  
8/11

9400 FLAIR DRIVE  
EL MONTE, CALIFORNIA

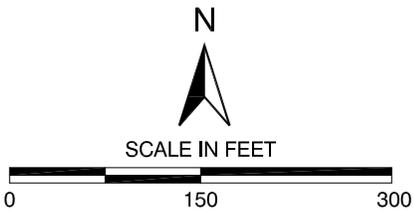
**1**

10 FREEWAY

RIO HONDO



NOTE: GOOGLE EARTH AERIAL PHOTO, 2011.



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

LEGEND

	SITE BOUNDARY		UST	UNDERGROUND STORAGE TANK
	B1/SG1		AST	ABOVEGROUND STORAGE TANK
	PIT			
	UST EXCAVATION			
	WWTP			

208380\_A2.DWG.....-G.K.



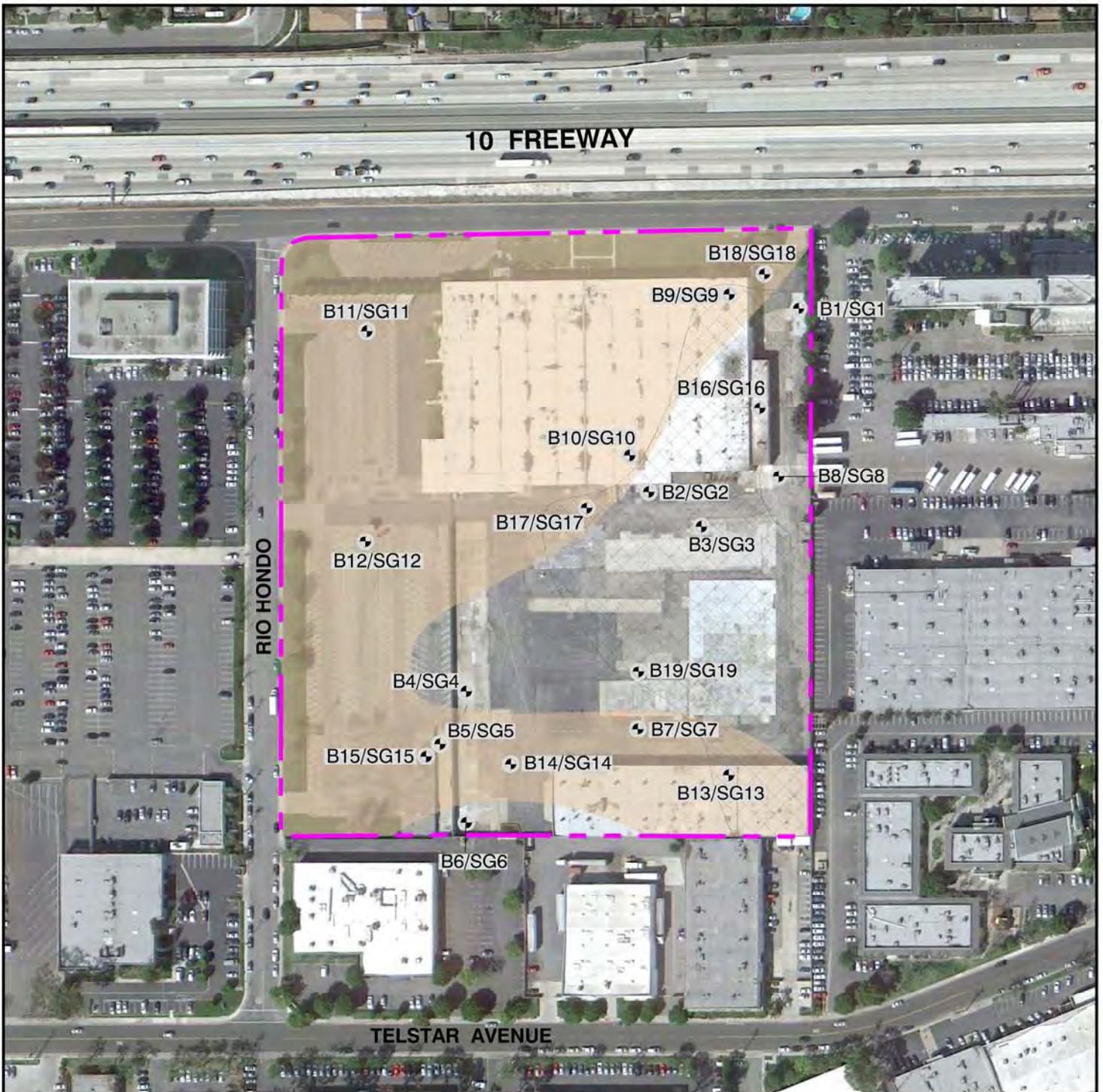
BORING LOCATIONS

FIGURE

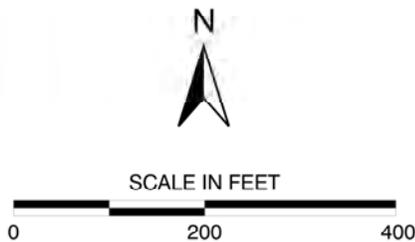
PROJECT NO.	DATE
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2



NOTE: GOOGLE EARTH AERIAL PHOTO, 2011.



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

**LEGEND**

	SITE BOUNDARY	CHHSLs	CALIFORNIA HUMAN HEALTH SCREENING LEVELS
	TCE/PCE OVER RESIDENTIAL CHHSLs	TCE	TRICHLOROETHENE
	BTEX OVER RESIDENTIAL CHHSLs	PCE	TETRACHLOROETHENE
	B1/SG1	BTEX	BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES
		UST	UNDERGROUND STORAGE TANK



**VOCs IN 5-FOOT SOIL GAS SAMPLES IN EXCESS OF THE CHHSLs**

FIGURE

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EL MONTE, CALIFORNIA

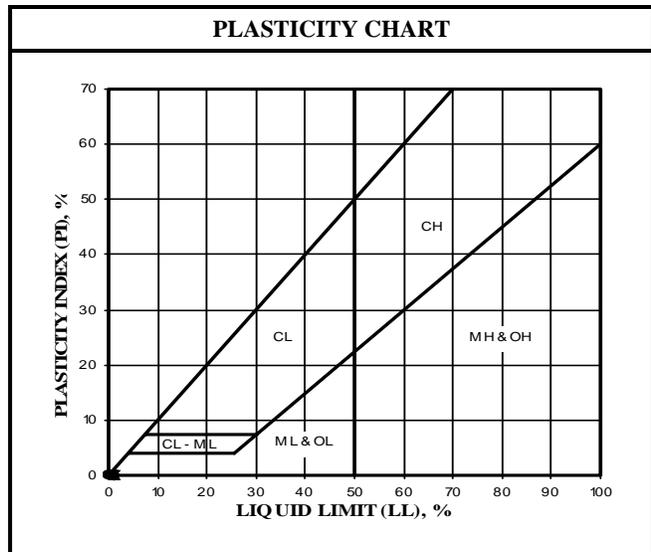
**3**

**APPENDIX A**  
**BORING LOGS**

## U.S.C.S. METHOD OF SOIL CLASSIFICATION

MAJOR DIVISIONS	SYMBOL	TYPICAL NAMES
<b>COARSE-GRAINED SOILS</b> (More than 1/2 of soil >No. 200 sieve size)	<b>GRAVELS</b> (More than 1/2 of coarse fraction > No. 4 sieve size)	 GW Well graded gravels or gravel-sand mixtures, little or no fines
		 GP Poorly graded gravels or gravel-sand mixtures, little or no fines
		 GM Silty gravels, gravel-sand-silt mixtures
		 GC Clayey gravels, gravel-sand-clay mixtures
	<b>SANDS</b> (More than 1/2 of coarse fraction <No. 4 sieve size)	 SW Well graded sands or gravelly sands, little or no fines
		 SP Poorly graded sands or gravelly sands, little or no fines
		 SM Silty sands, sand-silt mixtures
		 SC Clayey sands, sand-clay mixtures
<b>FINE-GRAINED SOILS</b> (More than 1/2 of soil <No. 200 sieve size)	<b>SILTS &amp; CLAYS</b> Liquid Limit <50	 ML Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with
		 CL Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean
		 OL Organic silts and organic silty clays of low plasticity
	<b>SILTS &amp; CLAYS</b> Liquid Limit >50	 MH Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
		 CH Inorganic clays of high plasticity, fat clays
		 OH Organic clays of medium to high plasticity, organic silty clays, organic silts
<b>HIGHLY ORGANIC SOILS</b>		Pt Peat and other highly organic soils

GRAIN SIZE CHART		
CLASSIFICATION	RANGE OF GRAIN SIZE	
	U.S. Standard Sieve Size	Grain Size in Millimeters
<b>BOULDERS</b>	Above 12"	Above 305
<b>COBBLES</b>	12" to 3"	305 to 76.2
<b>GRAVEL</b> Coarse	3" to No. 4	76.2 to 4.76
Fine	3" to 3/4" 3/4" to No. 4	76.2 to 19.1 19.1 to 4.76
<b>SAND</b> Coarse	No. 4 to No. 200	4.76 to 0.075
Medium	No. 4 to No. 10	4.76 to 2.00
Fine	No. 10 to No. 40 No. 40 to No. 200	2.00 to 0.420 0.420 to 0.075
<b>SILT &amp; CLAY</b>	Below No. 200	Below 0.075



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U.S.C.S. METHOD OF SOIL CLASSIFICATION

# BORING LOG EXPLANATION SHEET

DEPTH (feet)	Bulk Driven SAMPLES	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	
0	█						Bulk sample.
	█						Modified split-barrel drive sampler.
	▣						No recovery with modified split-barrel drive sampler.
	▣						Sample retained by others.
	▣						Standard Penetration Test (SPT).
5	▣						No recovery with a SPT.
	▣	XX/XX					Shelby tube sample. Distance pushed in inches/length of sample recovered in inches.
	▣						No recovery with Shelby tube sampler.
	▣						Continuous Push Sample.
			∩				Seepage.
10			∩				Groundwater encountered during drilling.
			∩				Groundwater measured after drilling.
					█	SM	ALLUVIUM: Solid line denotes unit change.
					---		Dashed line denotes material change.
15							Attitudes: Strike/Dip b: Bedding c: Contact j: Joint f: Fracture F: Fault cs: Clay Seam s: Shear bss: Basal Slide Surface sf: Shear Fracture sz: Shear Zone sbs: Sheared Bedding Surface
20							The total depth line is a solid line that is drawn at the bottom of the boring.



## BORING LOG

### EXPLANATION OF BORING LOG SYMBOLS

PROJECT NO.

DATE  
Rev. 01/03

FIGURE

DEPTH (feet)	SAMPLES		BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>8/9/11</u> BORING NO. <u>B1</u>		
	Bulk	Driven							GROUND ELEVATION <u>257' ± (MSL)</u> SHEET <u>1</u> OF <u>1</u>		METHOD OF DRILLING <u>Direct Push</u>
									<b>DESCRIPTION/INTERPRETATION</b>		
0								GP	CONCRETE: Approximately 5 inches thick.		
				B1-1	1.3			SM	FILL: Yellowish gray (5 Y 7/2), dry, sandy GRAVEL.		
				B1-5	1.7				ALLUVIUM: Moderate yellowish brown (10 YR 5/4), dry, silty SAND.		
5									Olive brown (5 Y 4/4).		
10				B1-10	1.6				Moderate yellowish brown (10 YR 5/4).		
15				B1-15	2.4						
20									Total Depth = 16 feet. No odors or stains noted. Groundwater not encountered. Soil gas probes set at 5 and 15 feet bgs on 8/9/11. Backfilled with bentonite and surfaced with concrete on 8/10/11.  <u>Note:</u> Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.		



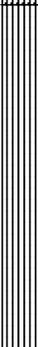
**BORING LOG**

9400 FLAIR DRIVE  
EL MONTE, CALIFORNIA

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208380001

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8/11

FIGURE  
A-1

DEPTH (feet)	SAMPLES		BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
	Bulk	Driven							
DATE DRILLED <u>8/9/11</u> BORING NO. <u>B2</u> GROUND ELEVATION <u>257' ± (MSL)</u> SHEET <u>1</u> OF <u>1</u> METHOD OF DRILLING <u>Direct Push</u> DRIVE WEIGHT <u>--</u> DROP <u>--</u> SAMPLED BY <u>JJJ</u> LOGGED BY <u>JJJ</u> REVIEWED BY <u>DIS</u>									
0								GP	CONCRETE: Approximately 4 inches thick.
								SM	FILL: Yellowish gray (5 YR 7/12), damp, sandy GRAVEL.
				B2-5	0.5				ALLUVIUM: Moderate yellowish brown (5 YR 4/4), damp, silty SAND.
5									
10				B2-10	1.6				
15				B2-15	1.4			ML	Moderate olive brown (5 YR 4/4), damp, sandy SILT.
20									Total Depth = 15.5 feet. No odors or stains noted. Groundwater not encountered. Soil gas probes set at 5 and 15 feet bgs on 8/10/11. Backfilled with bentonite and surfaced with concrete on 8/10/11.  Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.



**BORING LOG**

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FIGURE  
A-2

DEPTH (feet)	SAMPLES		BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>8/9/11</u> BORING NO. <u>B3</u>
	Bulk	Driven							
									METHOD OF DRILLING <u>Direct Push</u>
									DRIVE WEIGHT <u>--</u> DROP <u>--</u>
									SAMPLED BY <u>PDS</u> LOGGED BY <u>PDS</u> REVIEWED BY <u>DIS</u>
<b>DESCRIPTION/INTERPRETATION</b>									
0							■	GP	CONCRETE: Approximately 5 inches thick.
							■	SM	FILL: Yellowish gray (5 YR 3/2), damp, sandy GRAVEL. ALLUVIUM: Moderate olive brown (5 YR 4/4), damp, silty SAND.
5				B3-5	0.6		■		Moderate yellowish brown (10 YR 5/4).
10				B3-10	0.6		■		
15				B3-15	0.2		■	ML	Olive gray (5 YR 3/2), moist, sandy SILT; few clay.
20									Total Depth = 15 feet. No odors or stains noted. Groundwater not encountered. Soil gas probes set at 5 and 15 feet bgs on 8/9/11. Backfilled with bentonite and surfaced with concrete on 8/10/11.  <u>Note:</u> Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.



**BORING LOG**

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FIGURE  
A-3

DEPTH (feet)	SAMPLES		BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>8/9/11</u> BORING NO. <u>B4</u>		
	Bulk	Driven							GROUND ELEVATION <u>254' ± (MSL)</u> SHEET <u>1</u> OF <u>1</u>		METHOD OF DRILLING <u>Direct Push</u>
0									<b>DESCRIPTION/INTERPRETATION</b>		
				B4-1	214			SM	<p><b>CONCRETE:</b> Approximately 7 inches thick.</p> <p><b>ALLUVIUM:</b> Olive gray (5 YR 3/2), damp, silty SAND.</p>		
5				B4-5	3.2				Moderate yellowish brown (10 YR 5/4).		
10				B4-10	1.4				Moderate olive brown (5 YR 4/4).		
15				B4-15	1.8				<p>Total Depth = 15 feet.            Odor at 1 foot bgs to 3 foot bgs.            No stains.            Groundwater not encountered.            Soil gas probes set at 5 and 15 feet bgs on 8/9/11.            Backfilled with bentonite and surfaced with concrete on 8/10/11.</p> <p><u>Note:</u>            Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.</p>		
20											



**BORING LOG**

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FIGURE  
A-4

DEPTH (feet)	SAMPLES		BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED _____ 8/9/11 _____ BORING NO. _____ B5 _____ GROUND ELEVATION 255' ± (MSL) _____ SHEET 1 OF 3 _____ METHOD OF DRILLING Direct Push _____ DRIVE WEIGHT _____ -- _____ DROP _____ -- _____ SAMPLED BY PDS LOGGED BY PDS REVIEWED BY DIS _____
	Bulk	Driven							
0									<b>DESCRIPTION/INTERPRETATION</b>
				B5-1	0.9			SM	<p><b>CONCRETE:</b> Approximately 5 inches thick.</p> <p><b>FILL:</b> Moderate olive brown (5 Y 4/4), damp, silty SAND; few gravel.</p>
5				B5-5	0.9				
10				B5-10	1.1				
15				B5-15	0.0				
20				B5-20	1.7			SM	<p><b>ALLUVIUM:</b> Moderate yellowish brown (10 YR 5/4), damp, silty SAND.</p>



**BORING LOG**

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FIGURE  
A-5

DEPTH (feet)	SAMPLES		BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
	Bulk	Driven							
									DATE DRILLED <u>8/9/11</u> BORING NO. <u>B5</u> GROUND ELEVATION <u>255' ± (MSL)</u> SHEET <u>2</u> OF <u>3</u> METHOD OF DRILLING <u>Direct Push</u> DRIVE WEIGHT <u>--</u> DROP <u>--</u> SAMPLED BY <u>PDS</u> LOGGED BY <u>PDS</u> REVIEWED BY <u>DIS</u>
20					1.7			SM	<b>ALLUVIUM: (Continued)</b> Moderate yellowish brown (10 YR 5/4), damp, silty SAND.
								ML	Moderate yellowish brown (10 YR 5/4), damp, sandy SILT; few clay.
25				B5-25	1.8				
								SM	Moderate yellowish brown (10 YR 5/4), damp, silty SAND.
30				B5-35	1.7				
35				B5-35	2.2				
40				B5-40	2.8				



**BORING LOG**

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FIGURE  
A-6

DEPTH (feet)	SAMPLES		BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>8/9/11</u> BORING NO. <u>B5</u>		
	Bulk	Driven							GROUND ELEVATION <u>255' ± (MSL)</u> SHEET <u>3</u> OF <u>3</u>		
									METHOD OF DRILLING <u>Direct Push</u>		
									DRIVE WEIGHT <u>--</u> DROP <u>--</u>		
									SAMPLED BY <u>PDS</u> LOGGED BY <u>PDS</u> REVIEWED BY <u>DIS</u>		
									<b>DESCRIPTION/INTERPRETATION</b>		
40									<p>Total Depth = 40 feet.            No odor or stains.            Groundwater not encountered.            Soil gas probes set at 5 and 15 feet bgs on 8/9/11.            Backfilled with bentonite and surfaced with concrete on 8/10/11.</p> <p><u>Notes:</u>            Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.</p>		
45											
50											
55											
60											



**BORING LOG**

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FIGURE  
 A-7

DEPTH (feet)	SAMPLES		BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
	Bulk	Driven							
DATE DRILLED <u>8/9/11</u> BORING NO. <u>B6</u> GROUND ELEVATION <u>254' ± (MSL)</u> SHEET <u>1</u> OF <u>2</u> METHOD OF DRILLING <u>Direct Push</u> DRIVE WEIGHT <u>--</u> DROP <u>--</u> SAMPLED BY <u>PDS</u> LOGGED BY <u>PDS</u> REVIEWED BY <u>DIS</u>									
0								SM	ASPHALT: Approximately 5 inches thick. ALLUVIUM: Moderate olive brown (5 Y 4/4), damp, silty SAND.  Moderate yellowish brown (10 YR 5/4).
5				B6-5	0.0				
10				B6-10	0.5				
15				B6-15	0.6			ML	Olive gray (5 Y 3/2), moist, sandy SILT; few clay.
20				B6-20	0.2			SM	Moderate yellowish brown (10 YR 5/4), damp, silty SAND.



**BORING LOG**

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FIGURE  
A-8

DEPTH (feet)	SAMPLES		BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>8/9/11</u> BORING NO. <u>B6</u> GROUND ELEVATION <u>254' ± (MSL)</u> SHEET <u>2</u> OF <u>2</u> METHOD OF DRILLING <u>Direct Push</u> DRIVE WEIGHT <u>--</u> DROP <u>--</u> SAMPLED BY <u>PDS</u> LOGGED BY <u>PDS</u> REVIEWED BY <u>DIS</u>		
	Bulk	Driven							<b>DESCRIPTION/INTERPRETATION</b>		
20									Total Depth = 20 feet. No odors or stains noted. Groundwater not encountered. Soil gas probes set at 5 and 15 feet bgs on 8/9/11. Backfilled with bentonite and surfaced with concrete on 8/10/11.  <u>Note:</u> Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.		
25											
30											
35											
40											



**BORING LOG**

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8/11

FIGURE  
A-9

DEPTH (feet)	SAMPLES		BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>8/9/11</u> BORING NO. <u>B7</u>	
	Bulk	Driven							GROUND ELEVATION <u>255' ± (MSL)</u>	SHEET <u>1</u> OF <u>1</u>
									METHOD OF DRILLING <u>Direct Push</u>	
									DRIVE WEIGHT <u>--</u> DROP <u>--</u>	
									SAMPLED BY <u>PDS</u> LOGGED BY <u>PDS</u> REVIEWED BY <u>DIS</u>	
<b>DESCRIPTION/INTERPRETATION</b>										
0								GP	ASPHALT: Approximately 5 inches thick.	
								SM	FILL: Yellowish gray (5 Y 7/2), damp, sandy GRAVEL. ALLUVIUM: Moderate yellowish brown (10 YR 5/4), damp, silty SAND.	
5				B7-5	0.5					
10				B7-10	0.8					
								ML	Olive gray (5 Y 3/2), moist, sandy SILT; few clay.	
15				B7-15	0.5					
									<p>Total Depth = 15 feet.            No odors or stains noted.            Groundwater not encountered.            Soil gas probes set at 5 and 15 feet bgs on 8/9/11.            Backfilled with bentonite and surfaced with concrete on 8/10/11.</p> <p>Notes:            Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.</p>	
20										



**BORING LOG**

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FIGURE  
A-10

DEPTH (feet)	SAMPLES		BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>8/10/11</u> BORING NO. <u>B8</u>		
	Bulk	Driven							GROUND ELEVATION <u>256' ± (MSL)</u> SHEET <u>1</u> OF <u>3</u>		
									METHOD OF DRILLING <u>Direct Push</u>		
									DRIVE WEIGHT <u>--</u> DROP <u>--</u>		
									SAMPLED BY <u>PDS</u> LOGGED BY <u>PDS</u> REVIEWED BY <u>DIS</u>		
									<b>DESCRIPTION/INTERPRETATION</b>		
0								SM	<p><b>CONCRETE:</b> Approximately 5 inches thick.</p> <p><b>ALLUVIUM:</b> Moderate olive brown (5 Y 4/4) damp, silty SAND; few gravel.</p>		
5				B8-1	0.4				Moderate yellowish brown (10 YR 5/4).		
10				B8-5					Grayish olive (10 Y 4/2).		
15				B8-10	1.1				Moderate yellowish brown (10 YR 5/4).		
				B8-15	0.8						
20				B8-20	1.2						



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FIGURE  
A-11

DEPTH (feet)	SAMPLES		BLOWS/FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
	Bulk	Driven							
									DATE DRILLED <u>8/10/11</u> BORING NO. <u>B8</u> GROUND ELEVATION <u>256' ± (MSL)</u> SHEET <u>2</u> OF <u>3</u> METHOD OF DRILLING <u>Direct Push</u> DRIVE WEIGHT <u>--</u> DROP <u>--</u> SAMPLED BY <u>PDS</u> LOGGED BY <u>PDS</u> REVIEWED BY <u>DIS</u>
20								SM	ALLUVIUM: (Continued) Moderate yellowish brown (10 YR 5/4), damp, silty SAND.
25				B8-25	1.5			ML	Moderate yellowish brown (10 YR 5/4), damp, sandy SILT.
30				B8-30	0.5			SM	Moderate yellowish brown (10 YR 5/4), damp, silty SAND; few gravel; oxidation staining.
35				B8-35	1.9				
40				B8-40	1.5				



**BORING LOG**

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FIGURE  
A-12